APPENDIX B

Air Quality, Greenhouse Gas and Energy Data

Kaiser Moreno Valley - Existing Phase I

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	7.60	1000sqft	0.17	7,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2010
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**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.

Construction Phase - Only operational.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Only operational.

Trips and VMT - Only operational.

On-road Fugitive Dust - Only operational.

Grading - Only operational.

Architectural Coating - Only operational.

Vehicle Trips - Stationary sources only during operation.

Road Dust - CalEEMod defaults.

Consumer Products - CalEEMod defaults.

Area Coating - CalEEMod defaults.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers - Existing permitted boilers.

Stationary Sources - Emergency Generators and Fire Pumps EF -

Stationary Sources - Process Boilers EF - CalEEMod defaults.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	WD_TR	36.13	0.00

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					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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

	ROG	NOx	CO	SO2	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					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	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**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	0.0363	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9000e-004	1.9000e-004	0.0000	0.0000	2.1000e-004
Energy	1.4000e-004	1.2900e-003	1.0900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	24.4602	24.4602	9.8000e-004	2.2000e-004	24.5510
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	16.6615	0.0000	16.6615	0.9847	0.0000	41.2782
Water						0.0000	0.0000		0.0000	0.0000	0.3026	4.5995	4.9021	0.0313	7.7000e-004	5.9140
Total	**0.0364**	**1.2900e-003**	**1.2000e-003**	**1.0000e-005**	**0.0000**	**1.0000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**1.0000e-004**	**16.9641**	**29.0599**	**46.0240**	**1.0169**	**9.9000e-004**	**71.7434**

2.2 Overall Operational

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	0.0363	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9000e-004	1.9000e-004	0.0000	0.0000	2.1000e-004
Energy	1.4000e-004	1.2900e-003	1.0900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	24.4602	24.4602	9.8000e-004	2.2000e-004	24.5510
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	16.6615	0.0000	16.6615	0.9847	0.0000	41.2782
Water						0.0000	0.0000		0.0000	0.0000	0.3026	4.5995	4.9021	0.0313	7.7000e-004	5.9140
Total	**0.0364**	**1.2900e-003**	**1.2000e-003**	**1.0000e-005**	**0.0000**	**1.0000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**1.0000e-004**	**16.9641**	**29.0599**	**46.0240**	**1.0169**	**9.9000e-004**	**71.7434**

	ROG	NOx	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**	**0.00**	**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	2/26/2019	2/26/2019	5	1	

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: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	6.00	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	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	0.0000	0.0000	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**

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**

3.2 Demolition - 2019

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	0.0000	0.0000	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**

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**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Medical Office Building	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Medical Office Building	0.466931	0.060112	0.168008	0.175941	0.037203	0.008410	0.015268	0.056562	0.001254	0.001542	0.005522	0.000888	0.002360

5.0 Energy Detail

Historical Energy Use: N

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	23.0529	23.0529	9.5000e-004	2.0000e-004	23.1354
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	23.0529	23.0529	9.5000e-004	2.0000e-004	23.1354
NaturalGas Mitigated	1.4000e-004	1.2900e-003	1.0900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4073	1.4073	3.0000e-005	3.0000e-005	1.4157
NaturalGas Unmitigated	1.4000e-004	1.2900e-003	1.0900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4073	1.4073	3.0000e-005	3.0000e-005	1.4157

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					
Medical Office Building	26372	1.4000e-004	1.2900e-003	1.0900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4073	1.4073	3.0000e-005	3.0000e-005	1.4157
Total		**1.4000e-004**	**1.2900e-003**	**1.0900e-003**	**1.0000e-005**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**	**0.0000**	**1.4073**	**1.4073**	**3.0000e-005**	**3.0000e-005**	**1.4157**

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					
Medical Office Building	26372	1.4000e-004	1.2900e-003	1.0900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4073	1.4073	3.0000e-005	3.0000e-005	1.4157
Total		**1.4000e-004**	**1.2900e-003**	**1.0900e-003**	**1.0000e-005**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**	**0.0000**	**1.4073**	**1.4073**	**3.0000e-005**	**3.0000e-005**	**1.4157**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Medical Office Building	72352	23.0529	9.5000e-004	2.0000e-004	23.1354
Total		**23.0529**	**9.5000e-004**	**2.0000e-004**	**23.1354**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Medical Office Building	72352	23.0529	9.5000e-004	2.0000e-004	23.1354
Total		**23.0529**	**9.5000e-004**	**2.0000e-004**	**23.1354**

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	0.0363	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9000e-004	1.9000e-004	0.0000	0.0000	2.1000e-004
Unmitigated	0.0363	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9000e-004	1.9000e-004	0.0000	0.0000	2.1000e-004

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	8.8100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0275					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9000e-004	1.9000e-004	0.0000	0.0000	2.1000e-004
Total	**0.0363**	**0.0000**	**1.1000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.9000e-004**	**1.9000e-004**	**0.0000**	**0.0000**	**2.1000e-004**

6.2 Area by SubCategory

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	8.8100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0275					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9000e-004	1.9000e-004	0.0000	0.0000	2.1000e-004
Total	**0.0363**	**0.0000**	**1.1000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.9000e-004**	**1.9000e-004**	**0.0000**	**0.0000**	**2.1000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.9021	0.0313	7.7000e-004	5.9140
Unmitigated	4.9021	0.0313	7.7000e-004	5.9140

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Medical Office Building	0.953652 / 0.181648	4.9021	0.0313	7.7000e-004	5.9140
Total		**4.9021**	**0.0313**	**7.7000e-004**	**5.9140**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Medical Office Building	0.953652 / 0.181648	4.9021	0.0313	7.7000e-004	5.9140
Total		**4.9021**	**0.0313**	**7.7000e-004**	**5.9140**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	16.6615	0.9847	0.0000	41.2782
Unmitigated	16.6615	0.9847	0.0000	41.2782

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Medical Office Building	82.08	16.6615	0.9847	0.0000	41.2782
Total		**16.6615**	**0.9847**	**0.0000**	**41.2782**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Medical Office Building	82.08	16.6615	0.9847	0.0000	41.2782
Total		**16.6615**	**0.9847**	**0.0000**	**41.2782**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Kaiser Moreno Valley - Existing Phase I

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	7.60	1000sqft	0.17	7,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2010
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**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.

Construction Phase - Only operational.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Only operational.

Trips and VMT - Only operational.

On-road Fugitive Dust - Only operational.

Grading - Only operational.

Architectural Coating - Only operational.

Vehicle Trips - Stationary sources only during operation.

Road Dust - CalEEMod defaults.

Consumer Products - CalEEMod defaults.

Area Coating - CalEEMod defaults.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers - Existing permitted boilers.

Stationary Sources - Emergency Generators and Fire Pumps EF -

Stationary Sources - Process Boilers EF - CalEEMod defaults.

Kaiser Moreno Valley - Existing Phase I - Riverside-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	WD_TR	36.13	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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

	ROG	NOx	CO	SO2	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	lb/day										lb/day					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	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**	**0.00**	**0.00**

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	lb/day										lb/day					
Area	0.1988	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.6600e-003	1.6600e-003	1.0000e-005		1.8100e-003
Energy	7.8000e-004	7.0800e-003	5.9500e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		8.5002	8.5002	1.6000e-004	1.6000e-004	8.5508
Mobile	0.0000	0.0000	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	**0.1996**	**7.0900e-003**	**6.8100e-003**	**4.0000e-005**	**0.0000**	**5.4000e-004**	**5.4000e-004**	**0.0000**	**5.4000e-004**	**5.4000e-004**		**8.5019**	**8.5019**	**1.7000e-004**	**1.6000e-004**	**8.5526**

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	lb/day										lb/day					
Area	0.1988	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.6600e-003	1.6600e-003	1.0000e-005		1.8100e-003
Energy	7.8000e-004	7.0800e-003	5.9500e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		8.5002	8.5002	1.6000e-004	1.6000e-004	8.5508
Mobile	0.0000	0.0000	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	**0.1996**	**7.0900e-003**	**6.8100e-003**	**4.0000e-005**	**0.0000**	**5.4000e-004**	**5.4000e-004**	**0.0000**	**5.4000e-004**	**5.4000e-004**		**8.5019**	**8.5019**	**1.7000e-004**	**1.6000e-004**	**8.5526**

	ROG	NOx	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**	**0.00**	**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	2/26/2019	2/26/2019	5	1	

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: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	6.00	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	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	lb/day										lb/day					
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
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**

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	lb/day										lb/day					
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
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
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
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**

3.2 Demolition - 2019

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	lb/day										lb/day					
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
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**

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	lb/day										lb/day					
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
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
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
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**

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	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Medical Office Building	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Medical Office Building	0.466931	0.060112	0.168008	0.175941	0.037203	0.008410	0.015268	0.056562	0.001254	0.001542	0.005522	0.000888	0.002360

5.0 Energy Detail

Historical Energy Use: N

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	lb/day										lb/day					
NaturalGas Mitigated	7.8000e-004	7.0800e-003	5.9500e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		8.5002	8.5002	1.6000e-004	1.6000e-004	8.5508
NaturalGas Unmitigated	7.8000e-004	7.0800e-003	5.9500e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		8.5002	8.5002	1.6000e-004	1.6000e-004	8.5508

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	lb/day										lb/day					
Medical Office Building	72.2521	7.8000e-004	7.0800e-003	5.9500e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		8.5002	8.5002	1.6000e-004	1.6000e-004	8.5508
Total		**7.8000e-004**	**7.0800e-003**	**5.9500e-003**	**4.0000e-005**		**5.4000e-004**	**5.4000e-004**		**5.4000e-004**	**5.4000e-004**		**8.5002**	**8.5002**	**1.6000e-004**	**1.6000e-004**	**8.5508**

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	lb/day										lb/day					
Medical Office Building	0.0722521	7.8000e-004	7.0800e-003	5.9500e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		8.5002	8.5002	1.6000e-004	1.6000e-004	8.5508
Total		**7.8000e-004**	**7.0800e-003**	**5.9500e-003**	**4.0000e-005**		**5.4000e-004**	**5.4000e-004**		**5.4000e-004**	**5.4000e-004**		**8.5002**	**8.5002**	**1.6000e-004**	**1.6000e-004**	**8.5508**

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	lb/day										lb/day					
Mitigated	0.1988	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.6600e-003	1.6600e-003	1.0000e-005		1.8100e-003
Unmitigated	0.1988	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.6600e-003	1.6600e-003	1.0000e-005		1.8100e-003

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	lb/day										lb/day					
Architectural Coating	0.0483					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1505					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.6600e-003	1.6600e-003	1.0000e-005		1.8100e-003
Total	**0.1988**	**1.0000e-005**	**8.6000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**1.6600e-003**	**1.6600e-003**	**1.0000e-005**		**1.8100e-003**

6.2 Area by SubCategory

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	lb/day										lb/day					
Architectural Coating	0.0483					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1505					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.6600e-003	1.6600e-003	1.0000e-005		1.8100e-003
Total	**0.1988**	**1.0000e-005**	**8.6000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**1.6600e-003**	**1.6600e-003**	**1.0000e-005**		**1.8100e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Kaiser Moreno Valley - Existing Phase I

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	7.60	1000sqft	0.17	7,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2010
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**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.

Construction Phase - Only operational.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Only operational.

Trips and VMT - Only operational.

On-road Fugitive Dust - Only operational.

Grading - Only operational.

Architectural Coating - Only operational.

Vehicle Trips - Stationary sources only during operation.

Road Dust - CalEEMod defaults.

Consumer Products - CalEEMod defaults.

Area Coating - CalEEMod defaults.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers - Existing permitted boilers.

Stationary Sources - Emergency Generators and Fire Pumps EF -

Stationary Sources - Process Boilers EF - CalEEMod defaults.

Kaiser Moreno Valley - Existing Phase I - Riverside-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	WD_TR	36.13	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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

	ROG	NOx	CO	SO2	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	lb/day										lb/day					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	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**	**0.00**	**0.00**

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	lb/day										lb/day					
Area	0.1988	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.6600e-003	1.6600e-003	1.0000e-005		1.8100e-003
Energy	7.8000e-004	7.0800e-003	5.9500e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		8.5002	8.5002	1.6000e-004	1.6000e-004	8.5508
Mobile	0.0000	0.0000	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	**0.1996**	**7.0900e-003**	**6.8100e-003**	**4.0000e-005**	**0.0000**	**5.4000e-004**	**5.4000e-004**	**0.0000**	**5.4000e-004**	**5.4000e-004**		**8.5019**	**8.5019**	**1.7000e-004**	**1.6000e-004**	**8.5526**

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	lb/day										lb/day					
Area	0.1988	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.6600e-003	1.6600e-003	1.0000e-005		1.8100e-003
Energy	7.8000e-004	7.0800e-003	5.9500e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		8.5002	8.5002	1.6000e-004	1.6000e-004	8.5508
Mobile	0.0000	0.0000	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	**0.1996**	**7.0900e-003**	**6.8100e-003**	**4.0000e-005**	**0.0000**	**5.4000e-004**	**5.4000e-004**	**0.0000**	**5.4000e-004**	**5.4000e-004**		**8.5019**	**8.5019**	**1.7000e-004**	**1.6000e-004**	**8.5526**

	ROG	NOx	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**	**0.00**	**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	2/26/2019	2/26/2019	5	1	

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: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	6.00	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	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	lb/day										lb/day					
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
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**

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	lb/day										lb/day					
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
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
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
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**

3.2 Demolition - 2019

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	lb/day										lb/day					
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
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**

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	lb/day										lb/day					
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
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
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
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**

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	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Medical Office Building	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Medical Office Building	0.466931	0.060112	0.168008	0.175941	0.037203	0.008410	0.015268	0.056562	0.001254	0.001542	0.005522	0.000888	0.002360

5.0 Energy Detail

Historical Energy Use: N

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	lb/day										lb/day					
NaturalGas Mitigated	7.8000e-004	7.0800e-003	5.9500e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		8.5002	8.5002	1.6000e-004	1.6000e-004	8.5508
NaturalGas Unmitigated	7.8000e-004	7.0800e-003	5.9500e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		8.5002	8.5002	1.6000e-004	1.6000e-004	8.5508

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	lb/day										lb/day					
Medical Office Building	72.2521	7.8000e-004	7.0800e-003	5.9500e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		8.5002	8.5002	1.6000e-004	1.6000e-004	8.5508
Total		**7.8000e-004**	**7.0800e-003**	**5.9500e-003**	**4.0000e-005**		**5.4000e-004**	**5.4000e-004**		**5.4000e-004**	**5.4000e-004**		**8.5002**	**8.5002**	**1.6000e-004**	**1.6000e-004**	**8.5508**

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	lb/day										lb/day					
Medical Office Building	0.0722521	7.8000e-004	7.0800e-003	5.9500e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		8.5002	8.5002	1.6000e-004	1.6000e-004	8.5508
Total		**7.8000e-004**	**7.0800e-003**	**5.9500e-003**	**4.0000e-005**		**5.4000e-004**	**5.4000e-004**		**5.4000e-004**	**5.4000e-004**		**8.5002**	**8.5002**	**1.6000e-004**	**1.6000e-004**	**8.5508**

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	lb/day										lb/day					
Mitigated	0.1988	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.6600e-003	1.6600e-003	1.0000e-005		1.8100e-003
Unmitigated	0.1988	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.6600e-003	1.6600e-003	1.0000e-005		1.8100e-003

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	lb/day										lb/day					
Architectural Coating	0.0483					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1505					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.6600e-003	1.6600e-003	1.0000e-005		1.8100e-003
Total	**0.1988**	**1.0000e-005**	**8.6000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**1.6600e-003**	**1.6600e-003**	**1.0000e-005**		**1.8100e-003**

6.2 Area by SubCategory

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	lb/day										lb/day					
Architectural Coating	0.0483					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1505					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.6600e-003	1.6600e-003	1.0000e-005		1.8100e-003
Total	**0.1988**	**1.0000e-005**	**8.6000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**1.6600e-003**	**1.6600e-003**	**1.0000e-005**		**1.8100e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Kaiser Moreno Valley - Existing Phase III

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	133.00	1000sqft	3.05	133,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2010
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**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.

Construction Phase - Only operational.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Only operational.

Trips and VMT - Only operational.

On-road Fugitive Dust - Only operational.

Grading - Only operational.

Architectural Coating - Only operational.

Vehicle Trips - Stationary sources only during operation.

Road Dust - CalEEMod defaults.

Consumer Products - CalEEMod defaults.

Area Coating - CalEEMod defaults.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults for electricity. Natural gas accounted for with boilers.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - Existing detroil diesel generator.

Stationary Sources - Process Boilers - Existing permitted boilers.

Stationary Sources - Emergency Generators and Fire Pumps EF - CalEEMod defaults.

Stationary Sources - Process Boilers EF - CalEEMod defaults.

Kaiser Moreno Valley - Existing Phase III - Riverside-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	NT24NG	6.03	0.00
tblEnergyUse	T24NG	69.49	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblStationaryBoilersUse	NumberOfEquipment	0.00	1.00
tblStationaryBoilersUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	10.18	0.00
tblVehicleTrips	SU_TR	8.91	0.00
tblVehicleTrips	WD_TR	13.22	0.00

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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

	ROG	NOx	CO	SO2	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	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**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	0.6349	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.3000e-003	3.3000e-003	1.0000e-005	0.0000	3.5900e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	781.0017	781.0017	0.0322	6.6700e-003	783.7957
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1035	0.3203	1.1574	6.6000e-003		0.0875	0.0875		0.0875	0.0875	0.0000	1,179.2526	1,179.2526	0.0251	0.0000	1,179.8808
Waste						0.0000	0.0000		0.0000	0.0000	291.5762	0.0000	291.5762	17.2317	0.0000	722.3677
Water						0.0000	0.0000		0.0000	0.0000	5.2946	80.4912	85.7858	0.5471	0.0135	103.4954
Total	**0.7384**	**0.3203**	**1.1593**	**6.6000e-003**	**0.0000**	**0.0875**	**0.0875**	**0.0000**	**0.0875**	**0.0875**	**296.8708**	**2,040.7488**	**2,337.6196**	**17.8362**	**0.0202**	**2,789.5433**

2.2 Overall Operational

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	0.6349	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.3000e-003	3.3000e-003	1.0000e-005	0.0000	3.5900e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	781.0017	781.0017	0.0322	6.6700e-003	783.7957
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.1035	0.3203	1.1574	6.6000e-003		0.0875	0.0875		0.0875	0.0875	0.0000	1,179.2526	1,179.2526	0.0251	0.0000	1,179.8808
Waste						0.0000	0.0000		0.0000	0.0000	291.5762	0.0000	291.5762	17.2317	0.0000	722.3677
Water						0.0000	0.0000		0.0000	0.0000	5.2946	80.4912	85.7858	0.5471	0.0135	103.4954
Total	**0.7384**	**0.3203**	**1.1593**	**6.6000e-003**	**0.0000**	**0.0875**	**0.0875**	**0.0000**	**0.0875**	**0.0875**	**296.8708**	**2,040.7488**	**2,337.6196**	**17.8362**	**0.0202**	**2,789.5433**

	ROG	NOx	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**	**0.00**	**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	6/1/2020	6/1/2020	5	1	

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: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crawler Tractors	0	8.00	212	0.43
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	0	8.00	203	0.36
Demolition	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	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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					
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**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**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	0.0000	0.0000	0.0000	0.0000	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**

3.2 Demolition - 2020

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	0.0000	0.0000	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**

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**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hospital	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hospital	0.466931	0.060112	0.168008	0.175941	0.037203	0.008410	0.015268	0.056562	0.001254	0.001542	0.005522	0.000888	0.002360

5.0 Energy Detail

Historical Energy Use: N

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	781.0017	781.0017	0.0322	6.6700e-003	783.7957
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	781.0017	781.0017	0.0322	6.6700e-003	783.7957
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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					
Hospital	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
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**

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					
Hospital	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
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**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hospital	2.45119e+006	781.0017	0.0322	6.6700e-003	783.7957
Total		**781.0017**	**0.0322**	**6.6700e-003**	**783.7957**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hospital	2.45119e+006	781.0017	0.0322	6.6700e-003	783.7957
Total		**781.0017**	**0.0322**	**6.6700e-003**	**783.7957**

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	0.6349	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.3000e-003	3.3000e-003	1.0000e-005	0.0000	3.5900e-003
Unmitigated	0.6349	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.3000e-003	3.3000e-003	1.0000e-005	0.0000	3.5900e-003

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	0.1541					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4806					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1000e-004	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.3000e-003	3.3000e-003	1.0000e-005	0.0000	3.5900e-003
Total	**0.6349**	**2.0000e-005**	**1.8900e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.3000e-003**	**3.3000e-003**	**1.0000e-005**	**0.0000**	**3.5900e-003**

6.2 Area by SubCategory

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	0.1541					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4806					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1000e-004	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.3000e-003	3.3000e-003	1.0000e-005	0.0000	3.5900e-003
Total	**0.6349**	**2.0000e-005**	**1.8900e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.3000e-003**	**3.3000e-003**	**1.0000e-005**	**0.0000**	**3.5900e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	85.7858	0.5471	0.0135	103.4954
Unmitigated	85.7858	0.5471	0.0135	103.4954

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hospital	16.6889 / 3.17884	85.7858	0.5471	0.0135	103.4954
Total		**85.7858**	**0.5471**	**0.0135**	**103.4954**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hospital	16.6889 / 3.17884	85.7858	0.5471	0.0135	103.4954
Total		**85.7858**	**0.5471**	**0.0135**	**103.4954**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	291.5762	17.2317	0.0000	722.3677
Unmitigated	291.5762	17.2317	0.0000	722.3677

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hospital	1436.4	291.5762	17.2317	0.0000	722.3677
Total		**291.5762**	**17.2317**	**0.0000**	**722.3677**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hospital	1436.4	291.5762	17.2317	0.0000	722.3677
Total		**291.5762**	**17.2317**	**0.0000**	**722.3677**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	50	1095	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	1	23.8	8682.9	4.2	CNG
Boiler	1	35.7	13024.4	6.3	CNG

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Boiler - CNG (2 - 5 MMBTU)	0.0234	0.0478	0.4171	2.5500e-003		0.0324	0.0324		0.0324	0.0324	0.0000	463.3605	463.3605	8.8800e-003	0.0000	463.5826
Boiler - CNG (5 - 75 MMBTU)	0.0351	0.0716	0.6257	3.8300e-003		0.0485	0.0485		0.0485	0.0485	0.0000	695.0435	695.0435	0.0133	0.0000	695.3765
Emergency Generator - Diesel (750 - 9999 HP)	0.0449	0.2009	0.1146	2.2000e-004		6.6100e-003	6.6100e-003		6.6100e-003	6.6100e-003	0.0000	20.8487	20.8487	2.9200e-003	0.0000	20.9217
Total	**0.1035**	**0.3203**	**1.1574**	**6.6000e-003**		**0.0875**	**0.0875**		**0.0875**	**0.0875**	**0.0000**	**1,179.2526**	**1,179.2526**	**0.0251**	**0.0000**	**1,179.8808**

11.0 Vegetation

Kaiser Moreno Valley - Existing Phase III

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	133.00	1000sqft	3.05	133,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2010
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**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.

Construction Phase - Only operational.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Only operational.

Trips and VMT - Only operational.

On-road Fugitive Dust - Only operational.

Grading - Only operational.

Architectural Coating - Only operational.

Vehicle Trips - Stationary sources only during operation.

Road Dust - CalEEMod defaults.

Consumer Products - CalEEMod defaults.

Area Coating - CalEEMod defaults.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults for electricity. Natural gas accounted for with boilers.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - Existing detroil diesel generator.

Stationary Sources - Process Boilers - Existing permitted boilers.

Stationary Sources - Emergency Generators and Fire Pumps EF - CalEEMod defaults.

Stationary Sources - Process Boilers EF - CalEEMod defaults.

Kaiser Moreno Valley - Existing Phase III - Riverside-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	NT24NG	6.03	0.00
tblEnergyUse	T24NG	69.49	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblStationaryBoilersUse	NumberOfEquipment	0.00	1.00
tblStationaryBoilersUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	10.18	0.00
tblVehicleTrips	SU_TR	8.91	0.00
tblVehicleTrips	WD_TR	13.22	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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

	ROG	NOx	CO	SO2	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	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	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**	**0.00**	**0.00**

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	lb/day										lb/day					
Area	3.4795	1.5000e-004	0.0151	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0291	0.0291	1.0000e-004		0.0317
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Stationary	1.2193	4.6725	8.0077	0.0393		0.5755	0.5755		0.5755	0.5755		7,459.7536	7,459.7536	0.1986		7,464.7188
Total	**4.6989**	**4.6726**	**8.0228**	**0.0393**	**0.0000**	**0.5756**	**0.5756**	**0.0000**	**0.5756**	**0.5756**		**7,459.7827**	**7,459.7827**	**0.1987**	**0.0000**	**7,464.7505**

2.2 Overall Operational

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	lb/day										lb/day					
Area	3.4795	1.5000e-004	0.0151	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0291	0.0291	1.0000e-004		0.0317
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Stationary	1.2193	4.6725	8.0077	0.0393		0.5755	0.5755		0.5755	0.5755		7,459.7536	7,459.7536	0.1986		7,464.7188
Total	**4.6989**	**4.6726**	**8.0228**	**0.0393**	**0.0000**	**0.5756**	**0.5756**	**0.0000**	**0.5756**	**0.5756**		**7,459.7827**	**7,459.7827**	**0.1987**	**0.0000**	**7,464.7505**

	ROG	NOx	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**	**0.00**	**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	6/1/2020	6/1/2020	5	1	

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: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crawler Tractors	0	8.00	212	0.43
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	0	8.00	203	0.36
Demolition	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	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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	lb/day										lb/day					
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
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**

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	lb/day										lb/day					
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
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
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
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**

3.2 Demolition - 2020

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	lb/day										lb/day					
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
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**

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	lb/day										lb/day					
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
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
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
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**

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	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hospital	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hospital	0.466931	0.060112	0.168008	0.175941	0.037203	0.008410	0.015268	0.056562	0.001254	0.001542	0.005522	0.000888	0.002360

5.0 Energy Detail

Historical Energy Use: N

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	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	lb/day										lb/day					
Hospital	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
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**

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	lb/day										lb/day					
Hospital	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
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**

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	lb/day										lb/day					
Mitigated	3.4795	1.5000e-004	0.0151	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0291	0.0291	1.0000e-004		0.0317
Unmitigated	3.4795	1.5000e-004	0.0151	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0291	0.0291	1.0000e-004		0.0317

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	lb/day										lb/day					
Architectural Coating	0.8445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6334					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6800e-003	1.5000e-004	0.0151	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0291	0.0291	1.0000e-004		0.0317
Total	**3.4795**	**1.5000e-004**	**0.0151**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0291**	**0.0291**	**1.0000e-004**		**0.0317**

6.2 Area by SubCategory

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	lb/day										lb/day					
Architectural Coating	0.8445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6334					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6800e-003	1.5000e-004	0.0151	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0291	0.0291	1.0000e-004		0.0317
Total	**3.4795**	**1.5000e-004**	**0.0151**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0291**	**0.0291**	**1.0000e-004**		**0.0317**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	50	1095	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	1	23.8	8682.9	4.2	CNG
Boiler	1	35.7	13024.4	6.3	CNG

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Boiler - CNG (2 - 5 MMBTU)	0.1283	0.2618	2.2867	0.0140		0.1773	0.1773		0.1773	0.1773		2,800.0478	2,800.0478	0.0537		2,801.3895
Boiler - CNG (5 - 75 MMBTU)	0.1925	0.3927	3.4301	0.0210		0.2660	0.2660		0.2660	0.2660		4,200.0718	4,200.0718	0.0805		4,202.0843
Emergency Generator - Diesel (750 - 9999 HP)	0.8985	4.0180	2.2909	4.3200e-003		0.1322	0.1322		0.1322	0.1322		459.6340	459.6340	0.0644		461.2450
Total	**1.2193**	**4.6725**	**8.0077**	**0.0393**		**0.5755**	**0.5755**		**0.5755**	**0.5755**		**7,459.7536**	**7,459.7536**	**0.1986**		**7,464.7188**

11.0 Vegetation

Kaiser Moreno Valley - Existing Phase III

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	133.00	1000sqft	3.05	133,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2010
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**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.

Construction Phase - Only operational.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Only operational.

Trips and VMT - Only operational.

On-road Fugitive Dust - Only operational.

Grading - Only operational.

Architectural Coating - Only operational.

Vehicle Trips - Stationary sources only during operation.

Road Dust - CalEEMod defaults.

Consumer Products - CalEEMod defaults.

Area Coating - CalEEMod defaults.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults for electricity. Natural gas accounted for with boilers.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - Existing detroil diesel generator.

Stationary Sources - Process Boilers - Existing permitted boilers.

Stationary Sources - Emergency Generators and Fire Pumps EF - CalEEMod defaults.

Stationary Sources - Process Boilers EF - CalEEMod defaults.

Kaiser Moreno Valley - Existing Phase III - Riverside-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	NT24NG	6.03	0.00
tblEnergyUse	T24NG	69.49	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblStationaryBoilersUse	NumberOfEquipment	0.00	1.00
tblStationaryBoilersUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	10.18	0.00
tblVehicleTrips	SU_TR	8.91	0.00
tblVehicleTrips	WD_TR	13.22	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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

	ROG	NOx	CO	SO2	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	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	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**	**0.00**	**0.00**

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	lb/day										lb/day					
Area	3.4795	1.5000e-004	0.0151	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0291	0.0291	1.0000e-004		0.0317
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Stationary	1.2193	4.6725	8.0077	0.0393		0.5755	0.5755		0.5755	0.5755		7,459.7536	7,459.7536	0.1986		7,464.7188
Total	**4.6989**	**4.6726**	**8.0228**	**0.0393**	**0.0000**	**0.5756**	**0.5756**	**0.0000**	**0.5756**	**0.5756**		**7,459.7827**	**7,459.7827**	**0.1987**	**0.0000**	**7,464.7505**

2.2 Overall Operational

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	lb/day										lb/day					
Area	3.4795	1.5000e-004	0.0151	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0291	0.0291	1.0000e-004		0.0317
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Stationary	1.2193	4.6725	8.0077	0.0393		0.5755	0.5755		0.5755	0.5755		7,459.7536	7,459.7536	0.1986		7,464.7188
Total	**4.6989**	**4.6726**	**8.0228**	**0.0393**	**0.0000**	**0.5756**	**0.5756**	**0.0000**	**0.5756**	**0.5756**		**7,459.7827**	**7,459.7827**	**0.1987**	**0.0000**	**7,464.7505**

	ROG	NOx	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**	**0.00**	**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	6/1/2020	6/1/2020	5	1	

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: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crawler Tractors	0	8.00	212	0.43
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	0	8.00	203	0.36
Demolition	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	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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	lb/day										lb/day					
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
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**

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	lb/day										lb/day					
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
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
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
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**

3.2 Demolition - 2020

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	lb/day										lb/day					
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
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**

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	lb/day										lb/day					
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
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
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
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**

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	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hospital	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hospital	0.466931	0.060112	0.168008	0.175941	0.037203	0.008410	0.015268	0.056562	0.001254	0.001542	0.005522	0.000888	0.002360

5.0 Energy Detail

Historical Energy Use: N

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	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	lb/day										lb/day					
Hospital	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
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**

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	lb/day										lb/day					
Hospital	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
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**

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	lb/day										lb/day					
Mitigated	3.4795	1.5000e-004	0.0151	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0291	0.0291	1.0000e-004		0.0317
Unmitigated	3.4795	1.5000e-004	0.0151	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0291	0.0291	1.0000e-004		0.0317

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	lb/day										lb/day					
Architectural Coating	0.8445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6334					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6800e-003	1.5000e-004	0.0151	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0291	0.0291	1.0000e-004		0.0317
Total	**3.4795**	**1.5000e-004**	**0.0151**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0291**	**0.0291**	**1.0000e-004**		**0.0317**

6.2 Area by SubCategory

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	lb/day										lb/day					
Architectural Coating	0.8445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6334					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6800e-003	1.5000e-004	0.0151	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0291	0.0291	1.0000e-004		0.0317
Total	**3.4795**	**1.5000e-004**	**0.0151**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0291**	**0.0291**	**1.0000e-004**		**0.0317**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	50	1095	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	1	23.8	8682.9	4.2	CNG
Boiler	1	35.7	13024.4	6.3	CNG

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Boiler - CNG (2 - 5 MMBTU)	0.1283	0.2618	2.2867	0.0140		0.1773	0.1773		0.1773	0.1773		2,800.0478	2,800.0478	0.0537		2,801.3895
Boiler - CNG (5 - 75 MMBTU)	0.1925	0.3927	3.4301	0.0210		0.2660	0.2660		0.2660	0.2660		4,200.0718	4,200.0718	0.0805		4,202.0843
Emergency Generator - Diesel (750 - 9999 HP)	0.8985	4.0180	2.2909	4.3200e-003		0.1322	0.1322		0.1322	0.1322		459.6340	459.6340	0.0644		461.2450
Total	**1.2193**	**4.6725**	**8.0077**	**0.0393**		**0.5755**	**0.5755**		**0.5755**	**0.5755**		**7,459.7536**	**7,459.7536**	**0.1986**		**7,464.7188**

11.0 Vegetation

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	95.00	1000sqft	2.18	95,000.00	0
General Light Industry	22.00	1000sqft	0.51	22,000.00	0
Other Asphalt Surfaces	85.86	1000sqft	1.97	85,856.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	601.59	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on actual RPS for SCE in 2017.

Land Use - Based on project description.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.
Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - Based on applicant provided information.

On-road Fugitive Dust - CalEEMod defaults.

Grading - CalEEMod defaults. Import based on applicant provided information.

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Based on trip gen for Phase 1.

Road Dust - CalEEMod defaults.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - Based on applicant provided information.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - water 3x daily and vehicle speed limit of 15 mph on unpaved roads.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation - LED lighting.

Water Mitigation -

Waste Mitigation - In accordance with AB 939.

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Stationary Sources - Emergency Generators and Fire Pumps -
Stationary Sources - Process Boilers -

Stationary Sources - Emergency Generators and Fire Pumps EF - Based on Tier 4 Final standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	58,500.00	56,718.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	175,500.00	170,154.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	LightingElect	4.52	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24E	5.56	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	NT24NG	6.03	0.00
tblEnergyUse	T24E	2.20	0.00
tblEnergyUse	T24E	8.35	18.51
tblEnergyUse	T24NG	15.36	0.00
tblEnergyUse	T24NG	69.49	285.11
tblGrading	MaterialImported	0.00	6,000.00

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tblLandUse	LandUseSquareFeet	85,860.00	85,856.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	601.59
tblSolidWaste	SolidWasteGenerationRate	27.28	25.10
tblSolidWaste	SolidWasteGenerationRate	1,026.00	1,006.45
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50

tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	35.00
tblTripsAndVMT	HaulingTripNumber	0.00	400.00
tblTripsAndVMT	HaulingTripNumber	0.00	100.00
tblTripsAndVMT	HaulingTripNumber	750.00	900.00
tblTripsAndVMT	HaulingTripNumber	0.00	320.00
tblTripsAndVMT	HaulingTripNumber	0.00	96.00
tblTripsAndVMT	HaulingTripNumber	0.00	240.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	33.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	30.00
tblTripsAndVMT	WorkerTripNumber	76.00	300.00
tblTripsAndVMT	WorkerTripNumber	10.00	60.00
tblTripsAndVMT	WorkerTripNumber	8.00	24.00
tblTripsAndVMT	WorkerTripNumber	15.00	30.00
tblVehicleTrips	CC_TL	8.40	2.59
tblVehicleTrips	CC_TTP	16.10	100.00
tblVehicleTrips	CNW_TL	6.90	0.00

tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	64.90	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	73.00	100.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	10.18	5.29
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	8.91	4.63
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	13.22	6.87
tblWater	IndoorWaterUseRate	5,087,500.00	4,680,500.00
tblWater	IndoorWaterUseRate	11,920,651.07	11,693,531.30
tblWater	OutdoorWaterUseRate	2,270,600.20	2,227,339.29

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	0.2603	2.3393	1.7889	5.4400e-003	0.4414	0.0851	0.5265	0.1786	0.0797	0.2583	0.0000	489.0113	489.0113	0.0737	0.0000	490.8545
2021	0.4333	2.9317	3.4516	9.7400e-003	0.4658	0.1031	0.5689	0.1245	0.0981	0.2226	0.0000	865.3212	865.3212	0.1124	0.0000	868.1313
2022	0.4219	1.0581	1.4394	3.4100e-003	0.1402	0.0433	0.1835	0.0374	0.0405	0.0779	0.0000	304.2177	304.2177	0.0505	0.0000	305.4791
Maximum	**0.4333**	**2.9317**	**3.4516**	**9.7400e-003**	**0.4658**	**0.1031**	**0.5689**	**0.1786**	**0.0981**	**0.2583**	**0.0000**	**865.3212**	**865.3212**	**0.1124**	**0.0000**	**868.1313**

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	0.1109	0.7467	2.0136	5.4400e-003	0.2912	7.0900e-003	0.2983	0.1016	6.9200e-003	0.1085	0.0000	489.0110	489.0110	0.0737	0.0000	490.8542
2021	0.2400	1.1917	3.8843	9.7400e-003	0.4658	0.0104	0.4761	0.1245	0.0101	0.1345	0.0000	865.3208	865.3208	0.1124	0.0000	868.1308
2022	0.3511	0.3416	1.6009	3.4100e-003	0.1402	3.9500e-003	0.1442	0.0374	3.8800e-003	0.0413	0.0000	304.2175	304.2175	0.0505	0.0000	305.4789
Maximum	**0.3511**	**1.1917**	**3.8843**	**9.7400e-003**	**0.4658**	**0.0104**	**0.4761**	**0.1245**	**0.0101**	**0.1345**	**0.0000**	**865.3208**	**865.3208**	**0.1124**	**0.0000**	**868.1308**

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	ROG	NOx	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	**37.07**	**63.97**	**-12.26**	**0.00**	**14.33**	**90.76**	**28.17**	**22.64**	**90.43**	**49.12**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
5	**3-22-2020**	**6-21-2020**	0.2648	0.0901
6	**6-22-2020**	**9-21-2020**	1.2808	0.3329
7	**9-22-2020**	**12-21-2020**	0.9253	0.3786
8	**12-22-2020**	**3-21-2021**	0.8390	0.3557
9	**3-22-2021**	**6-21-2021**	0.8486	0.3619
10	**6-22-2021**	**9-21-2021**	0.8487	0.3620
11	**9-22-2021**	**12-21-2021**	0.8388	0.3573
12	**12-22-2021**	**3-21-2022**	0.7007	0.3105
13	**3-22-2022**	**6-21-2022**	0.2788	0.0607
14	**6-22-2022**	**9-21-2022**	0.2849	0.0787
15	**9-22-2022**	**9-30-2022**	0.1072	0.0961
		Highest	1.2808	0.3786

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	0.4569	2.0000e-005	2.5900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.0300e-003	5.0300e-003	1.0000e-005	0.0000	5.3600e-003
Energy	0.1461	1.3277	1.1153	7.9700e-003		0.1009	0.1009		0.1009	0.1009	0.0000	1,925.0875	1,925.0875	0.0508	0.0313	1,935.6805
Mobile	0.1155	0.8325	0.8404	3.5100e-003	0.2164	1.9700e-003	0.2184	0.0580	1.8300e-003	0.0598	0.0000	327.7665	327.7665	0.0236	0.0000	328.3571
Stationary	0.1094	0.0537	0.2790	5.3000e-004		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	50.7793	50.7793	7.1200e-003	0.0000	50.9573
Waste						0.0000	0.0000		0.0000	0.0000	209.3953	0.0000	209.3953	12.3749	0.0000	518.7681
Water						0.0000	0.0000		0.0000	0.0000	5.1947	64.9315	70.1263	0.5367	0.0133	87.4905
Total	**0.8278**	**2.2139**	**2.2373**	**0.0120**	**0.2164**	**0.1050**	**0.3214**	**0.0580**	**0.1049**	**0.1629**	**214.5901**	**2,368.5698**	**2,583.1599**	**12.9932**	**0.0445**	**2,921.2588**

2.2 Overall Operational

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	0.4569	2.0000e-005	2.5900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.0300e-003	5.0300e-003	1.0000e-005	0.0000	5.3600e-003
Energy	0.1461	1.3277	1.1153	7.9700e-003		0.1009	0.1009		0.1009	0.1009	0.0000	1,925.0875	1,925.0875	0.0508	0.0313	1,935.6805
Mobile	0.1123	0.8102	0.7506	3.0400e-003	0.1731	1.6900e-003	0.1748	0.0464	1.5800e-003	0.0480	0.0000	283.8863	283.8863	0.0225	0.0000	284.4483
Stationary	0.1094	0.0537	0.2790	5.3000e-004		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	50.7793	50.7793	7.1200e-003	0.0000	50.9573
Waste						0.0000	0.0000		0.0000	0.0000	52.3488	0.0000	52.3488	3.0937	0.0000	129.6920
Water						0.0000	0.0000		0.0000	0.0000	4.1558	47.7417	51.8975	0.4291	0.0106	65.7713
Total	**0.8247**	**2.1916**	**2.1475**	**0.0115**	**0.1731**	**0.1048**	**0.2779**	**0.0464**	**0.1047**	**0.1510**	**56.5046**	**2,307.4998**	**2,364.0044**	**3.6033**	**0.0418**	**2,466.5547**

	ROG	NOx	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	**0.38**	**1.01**	**4.02**	**3.91**	**20.00**	**0.27**	**13.55**	**20.01**	**0.24**	**7.28**	**73.67**	**2.58**	**8.48**	**72.27**	**6.06**	**15.57**

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	6/1/2020	6/19/2020	5	15	
2	Site Preparation	Site Preparation	6/20/2020	7/24/2020	5	25	
3	Grading	Grading	7/25/2020	8/28/2020	5	25	
4	Building Construction	Building Construction	8/29/2020	3/11/2022	5	400	
5	Trenching	Trenching	3/12/2022	8/26/2022	5	120	
6	Paving	Paving	8/27/2022	9/23/2022	5	20	
7	Architectural Coating	Architectural Coating	9/24/2022	10/14/2022	5	15	

Acres of Grading (Site Preparation Phase): 12.5

Acres of Grading (Grading Phase): 25

Acres of Paving: 1.97

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 170,154; Non-Residential Outdoor: 56,718; Striped Parking Area: 5,151 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crawler Tractors	1	8.00	212	0.43
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Scrapers	0	8.00	367	0.48

Site Preparation	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Bore/Drill Rigs	1	8.00	221	0.50
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	0	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Trenching	Excavators	1	8.00	158	0.38
Trenching	Rollers	1	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Coating	Air Compressors	2	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	40.00	4.00	400.00	14.70	6.90	40.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	6	40.00	4.00	100.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	30.00	4.00	900.00	14.70	6.90	35.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	300.00	40.00	320.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	60.00	4.00	96.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	24.00	2.00	240.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	30.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved 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					
Off-Road	0.0142	0.1590	0.1216	2.5000e-004		6.8300e-003	6.8300e-003		6.2800e-003	6.2800e-003	0.0000	21.5457	21.5457	6.9700e-003	0.0000	21.7199
Total	**0.0142**	**0.1590**	**0.1216**	**2.5000e-004**		**6.8300e-003**	**6.8300e-003**		**6.2800e-003**	**6.2800e-003**	**0.0000**	**21.5457**	**21.5457**	**6.9700e-003**	**0.0000**	**21.7199**

3.2 Demolition - 2020

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	1.6800e-003	0.0756	0.0103	2.7000e-004	6.8900e-003	3.0000e-004	7.1900e-003	1.8900e-003	2.8000e-004	2.1700e-003	0.0000	26.3206	26.3206	1.1700e-003	0.0000	26.3499
Vendor	9.0000e-005	3.1200e-003	6.1000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.1000e-004	5.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.7377	0.7377	6.0000e-005	0.0000	0.7391
Worker	1.3800e-003	9.7000e-004	0.0103	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	8.9000e-004	0.0000	2.7588	2.7588	7.0000e-005	0.0000	2.7605
Total	**3.1500e-003**	**0.0797**	**0.0213**	**3.1000e-004**	**0.0104**	**3.4000e-004**	**0.0107**	**2.8200e-003**	**3.2000e-004**	**3.1300e-003**	**0.0000**	**29.8171**	**29.8171**	**1.3000e-003**	**0.0000**	**29.8495**

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	3.0200e-003	0.0131	0.1535	2.5000e-004		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	21.5457	21.5457	6.9700e-003	0.0000	21.7199
Total	**3.0200e-003**	**0.0131**	**0.1535**	**2.5000e-004**		**4.0000e-004**	**4.0000e-004**		**4.0000e-004**	**4.0000e-004**	**0.0000**	**21.5457**	**21.5457**	**6.9700e-003**	**0.0000**	**21.7199**

3.2 Demolition - 2020

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	1.6800e-003	0.0756	0.0103	2.7000e-004	6.8900e-003	3.0000e-004	7.1900e-003	1.8900e-003	2.8000e-004	2.1700e-003	0.0000	26.3206	26.3206	1.1700e-003	0.0000	26.3499
Vendor	9.0000e-005	3.1200e-003	6.1000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.1000e-004	5.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.7377	0.7377	6.0000e-005	0.0000	0.7391
Worker	1.3800e-003	9.7000e-004	0.0103	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	8.9000e-004	0.0000	2.7588	2.7588	7.0000e-005	0.0000	2.7605
Total	**3.1500e-003**	**0.0797**	**0.0213**	**3.1000e-004**	**0.0104**	**3.4000e-004**	**0.0107**	**2.8200e-003**	**3.2000e-004**	**3.1300e-003**	**0.0000**	**29.8171**	**29.8171**	**1.3000e-003**	**0.0000**	**29.8495**

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					0.2325	0.0000	0.2325	0.1249	0.0000	0.1249	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0510	0.5501	0.2275	4.7000e-004		0.0263	0.0263		0.0242	0.0242	0.0000	41.4027	41.4027	0.0134	0.0000	41.7374
Total	**0.0510**	**0.5501**	**0.2275**	**4.7000e-004**	**0.2325**	**0.0263**	**0.2587**	**0.1249**	**0.0242**	**0.1490**	**0.0000**	**41.4027**	**41.4027**	**0.0134**	**0.0000**	**41.7374**

3.3 Site Preparation - 2020

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	2.6000e-004	0.0121	1.5700e-003	4.0000e-005	8.6000e-004	4.0000e-005	9.0000e-004	2.4000e-004	4.0000e-005	2.7000e-004	0.0000	3.6255	3.6255	2.3000e-004	0.0000	3.6312
Vendor	1.4000e-004	5.2000e-003	1.0200e-003	1.0000e-005	3.2000e-004	3.0000e-005	3.5000e-004	9.0000e-005	3.0000e-005	1.2000e-004	0.0000	1.2294	1.2294	1.0000e-004	0.0000	1.2319
Worker	2.3000e-003	1.6100e-003	0.0172	5.0000e-005	5.5000e-003	3.0000e-005	5.5300e-003	1.4600e-003	3.0000e-005	1.4900e-003	0.0000	4.5980	4.5980	1.2000e-004	0.0000	4.6008
Total	**2.7000e-003**	**0.0189**	**0.0198**	**1.0000e-004**	**6.6800e-003**	**1.0000e-004**	**6.7800e-003**	**1.7900e-003**	**1.0000e-004**	**1.8800e-003**	**0.0000**	**9.4529**	**9.4529**	**4.5000e-004**	**0.0000**	**9.4639**

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					0.0907	0.0000	0.0907	0.0487	0.0000	0.0487	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7700e-003	0.0250	0.2322	4.7000e-004		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	41.4026	41.4026	0.0134	0.0000	41.7374
Total	**5.7700e-003**	**0.0250**	**0.2322**	**4.7000e-004**	**0.0907**	**7.7000e-004**	**0.0914**	**0.0487**	**7.7000e-004**	**0.0495**	**0.0000**	**41.4026**	**41.4026**	**0.0134**	**0.0000**	**41.7374**

3.3 Site Preparation - 2020

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	2.6000e-004	0.0121	1.5700e-003	4.0000e-005	8.6000e-004	4.0000e-005	9.0000e-004	2.4000e-004	4.0000e-005	2.7000e-004	0.0000	3.6255	3.6255	2.3000e-004	0.0000	3.6312
Vendor	1.4000e-004	5.2000e-003	1.0200e-003	1.0000e-005	3.2000e-004	3.0000e-005	3.5000e-004	9.0000e-005	3.0000e-005	1.2000e-004	0.0000	1.2294	1.2294	1.0000e-004	0.0000	1.2319
Worker	2.3000e-003	1.6100e-003	0.0172	5.0000e-005	5.5000e-003	3.0000e-005	5.5300e-003	1.4600e-003	3.0000e-005	1.4900e-003	0.0000	4.5980	4.5980	1.2000e-004	0.0000	4.6008
Total	**2.7000e-003**	**0.0189**	**0.0198**	**1.0000e-004**	**6.6800e-003**	**1.0000e-004**	**6.7800e-003**	**1.7900e-003**	**1.0000e-004**	**1.8800e-003**	**0.0000**	**9.4529**	**9.4529**	**4.5000e-004**	**0.0000**	**9.4639**

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					0.0136	0.0000	0.0136	1.4900e-003	0.0000	1.4900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0219	0.2664	0.1316	3.4000e-004		9.8000e-003	9.8000e-003		9.0200e-003	9.0200e-003	0.0000	30.0946	30.0946	9.7300e-003	0.0000	30.3379
Total	**0.0219**	**0.2664**	**0.1316**	**3.4000e-004**	**0.0136**	**9.8000e-003**	**0.0234**	**1.4900e-003**	**9.0200e-003**	**0.0105**	**0.0000**	**30.0946**	**30.0946**	**9.7300e-003**	**0.0000**	**30.3379**

3.4 Grading - 2020

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	3.4300e-003	0.1548	0.0210	5.5000e-004	0.0136	5.8000e-004	0.0142	3.7200e-003	5.6000e-004	4.2800e-003	0.0000	52.5734	52.5734	2.4900e-003	0.0000	52.6355
Vendor	1.4000e-004	5.2000e-003	1.0200e-003	1.0000e-005	3.2000e-004	3.0000e-005	3.5000e-004	9.0000e-005	3.0000e-005	1.2000e-004	0.0000	1.2294	1.2294	1.0000e-004	0.0000	1.2319
Worker	1.7200e-003	1.2100e-003	0.0129	4.0000e-005	4.1200e-003	3.0000e-005	4.1500e-003	1.0900e-003	2.0000e-005	1.1200e-003	0.0000	3.4485	3.4485	9.0000e-005	0.0000	3.4506
Total	**5.2900e-003**	**0.1612**	**0.0349**	**6.0000e-004**	**0.0180**	**6.4000e-004**	**0.0187**	**4.9000e-003**	**6.1000e-004**	**5.5200e-003**	**0.0000**	**57.2513**	**57.2513**	**2.6800e-003**	**0.0000**	**57.3181**

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					5.3200e-003	0.0000	5.3200e-003	5.8000e-004	0.0000	5.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2000e-003	0.0182	0.1844	3.4000e-004		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	30.0946	30.0946	9.7300e-003	0.0000	30.3379
Total	**4.2000e-003**	**0.0182**	**0.1844**	**3.4000e-004**	**5.3200e-003**	**5.6000e-004**	**5.8800e-003**	**5.8000e-004**	**5.6000e-004**	**1.1400e-003**	**0.0000**	**30.0946**	**30.0946**	**9.7300e-003**	**0.0000**	**30.3379**

3.4 Grading - 2020

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	3.4300e-003	0.1548	0.0210	5.5000e-004	0.0136	5.8000e-004	0.0142	3.7200e-003	5.6000e-004	4.2800e-003	0.0000	52.5734	52.5734	2.4900e-003	0.0000	52.6355
Vendor	1.4000e-004	5.2000e-003	1.0200e-003	1.0000e-005	3.2000e-004	3.0000e-005	3.5000e-004	9.0000e-005	3.0000e-005	1.2000e-004	0.0000	1.2294	1.2294	1.0000e-004	0.0000	1.2319
Worker	1.7200e-003	1.2100e-003	0.0129	4.0000e-005	4.1200e-003	3.0000e-005	4.1500e-003	1.0900e-003	2.0000e-005	1.1200e-003	0.0000	3.4485	3.4485	9.0000e-005	0.0000	3.4506
Total	**5.2900e-003**	**0.1612**	**0.0349**	**6.0000e-004**	**0.0180**	**6.4000e-004**	**0.0187**	**4.9000e-003**	**6.1000e-004**	**5.5200e-003**	**0.0000**	**57.2513**	**57.2513**	**2.6800e-003**	**0.0000**	**57.3181**

3.5 Building Construction - 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	0.0954	0.8672	0.7359	1.5300e-003		0.0392	0.0392		0.0374	0.0374	0.0000	130.3322	130.3322	0.0325	0.0000	131.1445
Total	**0.0954**	**0.8672**	**0.7359**	**1.5300e-003**		**0.0392**	**0.0392**		**0.0374**	**0.0374**	**0.0000**	**130.3322**	**130.3322**	**0.0325**	**0.0000**	**131.1445**

3.5 Building Construction - 2020

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	1.9000e-004	8.6300e-003	1.1200e-003	3.0000e-005	2.2300e-003	3.0000e-005	2.2500e-003	5.6000e-004	3.0000e-005	5.9000e-004	0.0000	2.5813	2.5813	1.6000e-004	0.0000	2.5854
Vendor	5.0600e-003	0.1851	0.0362	4.6000e-004	0.0112	1.0500e-003	0.0123	3.2400e-003	1.0000e-003	4.2500e-003	0.0000	43.7680	43.7680	3.5000e-003	0.0000	43.8555
Worker	0.0614	0.0430	0.4590	1.3600e-003	0.1467	9.0000e-004	0.1476	0.0390	8.3000e-004	0.0398	0.0000	122.7656	122.7656	3.0700e-003	0.0000	122.8424
Total	**0.0666**	**0.2368**	**0.4964**	**1.8500e-003**	**0.1602**	**1.9800e-003**	**0.1622**	**0.0428**	**1.8600e-003**	**0.0446**	**0.0000**	**169.1149**	**169.1149**	**6.7300e-003**	**0.0000**	**169.2833**

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	0.1939	0.8712	1.5300e-003		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003	0.0000	130.3320	130.3320	0.0325	0.0000	131.1443
Total	**0.0202**	**0.1939**	**0.8712**	**1.5300e-003**		**2.3100e-003**	**2.3100e-003**		**2.3100e-003**	**2.3100e-003**	**0.0000**	**130.3320**	**130.3320**	**0.0325**	**0.0000**	**131.1443**

3.5 Building Construction - 2020

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	1.9000e-004	8.6300e-003	1.1200e-003	3.0000e-005	2.2300e-003	3.0000e-005	2.2500e-003	5.6000e-004	3.0000e-005	5.9000e-004	0.0000	2.5813	2.5813	1.6000e-004	0.0000	2.5854
Vendor	5.0600e-003	0.1851	0.0362	4.6000e-004	0.0112	1.0500e-003	0.0123	3.2400e-003	1.0000e-003	4.2500e-003	0.0000	43.7680	43.7680	3.5000e-003	0.0000	43.8555
Worker	0.0614	0.0430	0.4590	1.3600e-003	0.1467	9.0000e-004	0.1476	0.0390	8.3000e-004	0.0398	0.0000	122.7656	122.7656	3.0700e-003	0.0000	122.8424
Total	**0.0666**	**0.2368**	**0.4964**	**1.8500e-003**	**0.1602**	**1.9800e-003**	**0.1622**	**0.0428**	**1.8600e-003**	**0.0446**	**0.0000**	**169.1149**	**169.1149**	**6.7300e-003**	**0.0000**	**169.2833**

3.5 Building Construction - 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	0.2525	2.3087	2.1223	4.4800e-003		0.0995	0.0995		0.0948	0.0948	0.0000	382.4932	382.4932	0.0941	0.0000	384.8463
Total	**0.2525**	**2.3087**	**2.1223**	**4.4800e-003**		**0.0995**	**0.0995**		**0.0948**	**0.0948**	**0.0000**	**382.4932**	**382.4932**	**0.0941**	**0.0000**	**384.8463**

3.5 Building Construction - 2021

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	5.2000e-004	0.0232	3.2000e-003	8.0000e-005	2.5200e-003	7.0000e-005	2.5900e-003	6.7000e-004	7.0000e-005	7.4000e-004	0.0000	7.4906	7.4906	4.6000e-004	0.0000	7.5021
Vendor	0.0125	0.4867	0.0937	1.3300e-003	0.0330	9.3000e-004	0.0339	9.5100e-003	8.9000e-004	0.0104	0.0000	127.3540	127.3540	9.7200e-003	0.0000	127.5969
Worker	0.1679	0.1131	1.2325	3.8500e-003	0.4303	2.5800e-003	0.4329	0.1143	2.3700e-003	0.1166	0.0000	347.9834	347.9834	8.1100e-003	0.0000	348.1860
Total	**0.1808**	**0.6230**	**1.3293**	**5.2600e-003**	**0.4658**	**3.5800e-003**	**0.4694**	**0.1244**	**3.3300e-003**	**0.1278**	**0.0000**	**482.8280**	**482.8280**	**0.0183**	**0.0000**	**483.2850**

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	0.0592	0.5687	2.5550	4.4800e-003		6.7700e-003	6.7700e-003		6.7700e-003	6.7700e-003	0.0000	382.4928	382.4928	0.0941	0.0000	384.8459
Total	**0.0592**	**0.5687**	**2.5550**	**4.4800e-003**		**6.7700e-003**	**6.7700e-003**		**6.7700e-003**	**6.7700e-003**	**0.0000**	**382.4928**	**382.4928**	**0.0941**	**0.0000**	**384.8459**

3.5 Building Construction - 2021

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	5.2000e-004	0.0232	3.2000e-003	8.0000e-005	2.5200e-003	7.0000e-005	2.5900e-003	6.7000e-004	7.0000e-005	7.4000e-004	0.0000	7.4906	7.4906	4.6000e-004	0.0000	7.5021
Vendor	0.0125	0.4867	0.0937	1.3300e-003	0.0330	9.3000e-004	0.0339	9.5100e-003	8.9000e-004	0.0104	0.0000	127.3540	127.3540	9.7200e-003	0.0000	127.5969
Worker	0.1679	0.1131	1.2325	3.8500e-003	0.4303	2.5800e-003	0.4329	0.1143	2.3700e-003	0.1166	0.0000	347.9834	347.9834	8.1100e-003	0.0000	348.1860
Total	**0.1808**	**0.6230**	**1.3293**	**5.2600e-003**	**0.4658**	**3.5800e-003**	**0.4694**	**0.1244**	**3.3300e-003**	**0.1278**	**0.0000**	**482.8280**	**482.8280**	**0.0183**	**0.0000**	**483.2850**

3.5 Building Construction - 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	0.0438	0.3901	0.4016	8.6000e-004		0.0163	0.0163		0.0155	0.0155	0.0000	73.3161	73.3161	0.0179	0.0000	73.7635
Total	**0.0438**	**0.3901**	**0.4016**	**8.6000e-004**		**0.0163**	**0.0163**		**0.0155**	**0.0155**	**0.0000**	**73.3161**	**73.3161**	**0.0179**	**0.0000**	**73.7635**

3.5 Building Construction - 2022

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	4.0400e-003	5.9000e-004	1.0000e-005	2.1600e-003	1.0000e-005	2.1700e-003	5.4000e-004	1.0000e-005	5.5000e-004	0.0000	1.4185	1.4185	8.0000e-005	0.0000	1.4206
Vendor	2.2300e-003	0.0878	0.0167	2.5000e-004	6.3200e-003	1.5000e-004	6.4700e-003	1.8200e-003	1.4000e-004	1.9700e-003	0.0000	24.1875	24.1875	1.7600e-003	0.0000	24.2315
Worker	0.0301	0.0195	0.2175	7.1000e-004	0.0824	4.8000e-004	0.0829	0.0219	4.4000e-004	0.0223	0.0000	64.2308	64.2308	1.4000e-003	0.0000	64.2657
Total	**0.0325**	**0.1114**	**0.2348**	**9.7000e-004**	**0.0909**	**6.4000e-004**	**0.0916**	**0.0243**	**5.9000e-004**	**0.0249**	**0.0000**	**89.8368**	**89.8368**	**3.2400e-003**	**0.0000**	**89.9179**

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	0.0113	0.1089	0.4895	8.6000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003	0.0000	73.3160	73.3160	0.0179	0.0000	73.7634
Total	**0.0113**	**0.1089**	**0.4895**	**8.6000e-004**		**1.3000e-003**	**1.3000e-003**		**1.3000e-003**	**1.3000e-003**	**0.0000**	**73.3160**	**73.3160**	**0.0179**	**0.0000**	**73.7634**

3.5 Building Construction - 2022

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	4.0400e-003	5.9000e-004	1.0000e-005	2.1600e-003	1.0000e-005	2.1700e-003	5.4000e-004	1.0000e-005	5.5000e-004	0.0000	1.4185	1.4185	8.0000e-005	0.0000	1.4206
Vendor	2.2300e-003	0.0878	0.0167	2.5000e-004	6.3200e-003	1.5000e-004	6.4700e-003	1.8200e-003	1.4000e-004	1.9700e-003	0.0000	24.1875	24.1875	1.7600e-003	0.0000	24.2315
Worker	0.0301	0.0195	0.2175	7.1000e-004	0.0824	4.8000e-004	0.0829	0.0219	4.4000e-004	0.0223	0.0000	64.2308	64.2308	1.4000e-003	0.0000	64.2657
Total	**0.0325**	**0.1114**	**0.2348**	**9.7000e-004**	**0.0909**	**6.4000e-004**	**0.0916**	**0.0243**	**5.9000e-004**	**0.0249**	**0.0000**	**89.8368**	**89.8368**	**3.2400e-003**	**0.0000**	**89.9179**

3.6 Trenching - 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	0.0419	0.4113	0.5755	8.4000e-004		0.0219	0.0219		0.0202	0.0202	0.0000	73.8411	73.8411	0.0239	0.0000	74.4381
Total	**0.0419**	**0.4113**	**0.5755**	**8.4000e-004**		**0.0219**	**0.0219**		**0.0202**	**0.0202**	**0.0000**	**73.8411**	**73.8411**	**0.0239**	**0.0000**	**74.4381**

3.6 Trenching - 2022

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	2.2000e-004	9.7000e-003	1.4300e-003	4.0000e-005	8.3000e-004	3.0000e-005	8.5000e-004	2.3000e-004	3.0000e-005	2.5000e-004	0.0000	3.4044	3.4044	2.0000e-004	0.0000	3.4095
Vendor	5.3000e-004	0.0211	4.0100e-003	6.0000e-005	1.5200e-003	4.0000e-005	1.5500e-003	4.4000e-004	3.0000e-005	4.7000e-004	0.0000	5.8050	5.8050	4.2000e-004	0.0000	5.8156
Worker	0.0145	9.3600e-003	0.1044	3.4000e-004	0.0396	2.3000e-004	0.0398	0.0105	2.1000e-004	0.0107	0.0000	30.8308	30.8308	6.7000e-004	0.0000	30.8476
Total	**0.0152**	**0.0401**	**0.1098**	**4.4000e-004**	**0.0419**	**3.0000e-004**	**0.0422**	**0.0112**	**2.7000e-004**	**0.0114**	**0.0000**	**40.0402**	**40.0402**	**1.2900e-003**	**0.0000**	**40.0726**

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	0.0103	0.0446	0.6352	8.4000e-004		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	73.8410	73.8410	0.0239	0.0000	74.4380
Total	**0.0103**	**0.0446**	**0.6352**	**8.4000e-004**		**1.3700e-003**	**1.3700e-003**		**1.3700e-003**	**1.3700e-003**	**0.0000**	**73.8410**	**73.8410**	**0.0239**	**0.0000**	**74.4380**

3.6 Trenching - 2022

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	2.2000e-004	9.7000e-003	1.4300e-003	4.0000e-005	8.3000e-004	3.0000e-005	8.5000e-004	2.3000e-004	3.0000e-005	2.5000e-004	0.0000	3.4044	3.4044	2.0000e-004	0.0000	3.4095
Vendor	5.3000e-004	0.0211	4.0100e-003	6.0000e-005	1.5200e-003	4.0000e-005	1.5500e-003	4.4000e-004	3.0000e-005	4.7000e-004	0.0000	5.8050	5.8050	4.2000e-004	0.0000	5.8156
Worker	0.0145	9.3600e-003	0.1044	3.4000e-004	0.0396	2.3000e-004	0.0398	0.0105	2.1000e-004	0.0107	0.0000	30.8308	30.8308	6.7000e-004	0.0000	30.8476
Total	**0.0152**	**0.0401**	**0.1098**	**4.4000e-004**	**0.0419**	**3.0000e-004**	**0.0422**	**0.0112**	**2.7000e-004**	**0.0114**	**0.0000**	**40.0402**	**40.0402**	**1.2900e-003**	**0.0000**	**40.0726**

3.7 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	5.5100e-003	0.0556	0.0729	1.1000e-004		2.8400e-003	2.8400e-003		2.6100e-003	2.6100e-003	0.0000	10.0138	10.0138	3.2400e-003	0.0000	10.0948
Paving	2.5800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.0900e-003**	**0.0556**	**0.0729**	**1.1000e-004**		**2.8400e-003**	**2.8400e-003**		**2.6100e-003**	**2.6100e-003**	**0.0000**	**10.0138**	**10.0138**	**3.2400e-003**	**0.0000**	**10.0948**

3.7 Paving - 2022

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	5.6000e-004	0.0242	3.5600e-003	9.0000e-005	2.0700e-003	7.0000e-005	2.1300e-003	5.7000e-004	6.0000e-005	6.3000e-004	0.0000	8.5111	8.5111	5.0000e-004	0.0000	8.5237
Vendor	4.0000e-005	1.7600e-003	3.3000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4838	0.4838	4.0000e-005	0.0000	0.4846
Worker	9.6000e-004	6.2000e-004	6.9600e-003	2.0000e-005	2.6400e-003	2.0000e-005	2.6500e-003	7.0000e-004	1.0000e-005	7.1000e-004	0.0000	2.0554	2.0554	4.0000e-005	0.0000	2.0565
Total	**1.5600e-003**	**0.0266**	**0.0109**	**1.2000e-004**	**4.8400e-003**	**9.0000e-005**	**4.9100e-003**	**1.3100e-003**	**7.0000e-005**	**1.3800e-003**	**0.0000**	**11.0502**	**11.0502**	**5.8000e-004**	**0.0000**	**11.0648**

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	1.4000e-003	6.0800e-003	0.0865	1.1000e-004		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	10.0138	10.0138	3.2400e-003	0.0000	10.0947
Paving	2.5800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.9800e-003**	**6.0800e-003**	**0.0865**	**1.1000e-004**		**1.9000e-004**	**1.9000e-004**		**1.9000e-004**	**1.9000e-004**	**0.0000**	**10.0138**	**10.0138**	**3.2400e-003**	**0.0000**	**10.0947**

3.7 Paving - 2022

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	5.6000e-004	0.0242	3.5600e-003	9.0000e-005	2.0700e-003	7.0000e-005	2.1300e-003	5.7000e-004	6.0000e-005	6.3000e-004	0.0000	8.5111	8.5111	5.0000e-004	0.0000	8.5237
Vendor	4.0000e-005	1.7600e-003	3.3000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4838	0.4838	4.0000e-005	0.0000	0.4846
Worker	9.6000e-004	6.2000e-004	6.9600e-003	2.0000e-005	2.6400e-003	2.0000e-005	2.6500e-003	7.0000e-004	1.0000e-005	7.1000e-004	0.0000	2.0554	2.0554	4.0000e-005	0.0000	2.0565
Total	**1.5600e-003**	**0.0266**	**0.0109**	**1.2000e-004**	**4.8400e-003**	**9.0000e-005**	**4.9100e-003**	**1.3100e-003**	**7.0000e-005**	**1.3800e-003**	**0.0000**	**11.0502**	**11.0502**	**5.8000e-004**	**0.0000**	**11.0648**

3.8 Architectural Coating - 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					
Archit. Coating	0.2748					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0700e-003	0.0211	0.0272	4.0000e-005		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	3.8299	3.8299	2.5000e-004	0.0000	3.8361
Total	**0.2779**	**0.0211**	**0.0272**	**4.0000e-005**		**1.2300e-003**	**1.2300e-003**		**1.2300e-003**	**1.2300e-003**	**0.0000**	**3.8299**	**3.8299**	**2.5000e-004**	**0.0000**	**3.8361**

3.8 Architectural Coating - 2022

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	3.0000e-005	1.3200e-003	2.5000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3628	0.3628	3.0000e-005	0.0000	0.3635
Worker	9.0000e-004	5.8000e-004	6.5200e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4900e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.9269	1.9269	4.0000e-005	0.0000	1.9280
Total	**9.3000e-004**	**1.9000e-003**	**6.7700e-003**	**2.0000e-005**	**2.5600e-003**	**1.0000e-005**	**2.5900e-003**	**6.9000e-004**	**1.0000e-005**	**7.0000e-004**	**0.0000**	**2.2897**	**2.2897**	**7.0000e-005**	**0.0000**	**2.2914**

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	0.2748					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5000e-004	1.9300e-003	0.0275	4.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	3.8299	3.8299	2.5000e-004	0.0000	3.8361
Total	**0.2753**	**1.9300e-003**	**0.0275**	**4.0000e-005**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**3.8299**	**3.8299**	**2.5000e-004**	**0.0000**	**3.8361**

3.8 Architectural Coating - 2022

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	3.0000e-005	1.3200e-003	2.5000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3628	0.3628	3.0000e-005	0.0000	0.3635
Worker	9.0000e-004	5.8000e-004	6.5200e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4900e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.9269	1.9269	4.0000e-005	0.0000	1.9280
Total	**9.3000e-004**	**1.9000e-003**	**6.7700e-003**	**2.0000e-005**	**2.5600e-003**	**1.0000e-005**	**2.5900e-003**	**6.9000e-004**	**1.0000e-005**	**7.0000e-004**	**0.0000**	**2.2897**	**2.2897**	**7.0000e-005**	**0.0000**	**2.2914**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Limit Parking Supply

Implement Trip Reduction Program

Market Commute Trip Reduction Option

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1123	0.8102	0.7506	3.0400e-003	0.1731	1.6900e-003	0.1748	0.0464	1.5800e-003	0.0480	0.0000	283.8863	283.8863	0.0225	0.0000	284.4483
Unmitigated	0.1155	0.8325	0.8404	3.5100e-003	0.2164	1.9700e-003	0.2184	0.0580	1.8300e-003	0.0598	0.0000	327.7665	327.7665	0.0236	0.0000	328.3571

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Hospital	653.00	502.84	440.11	566,817	453,454
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	653.00	502.84	440.11	566,817	453,454

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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Hospital	0.00	2.59	0.00	0.00	100.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Hospital	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Other Asphalt Surfaces	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898

5.0 Energy Detail

Historical Energy Use: N

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	479.7169	479.7169	0.0231	4.7800e-003	481.7208
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	479.7169	479.7169	0.0231	4.7800e-003	481.7208
NaturalGas Mitigated	0.1461	1.3277	1.1153	7.9700e-003		0.1009	0.1009		0.1009	0.1009	0.0000	1,445.3706	1,445.3706	0.0277	0.0265	1,453.9597
NaturalGas Unmitigated	0.1461	1.3277	1.1153	7.9700e-003		0.1009	0.1009		0.1009	0.1009	0.0000	1,445.3706	1,445.3706	0.0277	0.0265	1,453.9597

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 Light Industry	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
Hospital	2.70852e+007	0.1461	1.3277	1.1153	7.9700e-003		0.1009	0.1009		0.1009	0.1009	0.0000	1,445.3706	1,445.3706	0.0277	0.0265	1,453.9597
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
Total		**0.1461**	**1.3277**	**1.1153**	**7.9700e-003**		**0.1009**	**0.1009**		**0.1009**	**0.1009**	**0.0000**	**1,445.3706**	**1,445.3706**	**0.0277**	**0.0265**	**1,453.9597**

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 Light Industry	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
Hospital	2.70852e+007	0.1461	1.3277	1.1153	7.9700e-003		0.1009	0.1009		0.1009	0.1009	0.0000	1,445.3706	1,445.3706	0.0277	0.0265	1,453.9597
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
Total		**0.1461**	**1.3277**	**1.1153**	**7.9700e-003**		**0.1009**	**0.1009**		**0.1009**	**0.1009**	**0.0000**	**1,445.3706**	**1,445.3706**	**0.0277**	**0.0265**	**1,453.9597**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Hospital	1.758e +006	479.7169	0.0231	4.7800e-003	481.7208
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**479.7169**	**0.0231**	**4.7800e-003**	**481.7208**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Hospital	1.758e +006	479.7169	0.0231	4.7800e-003	481.7208
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**479.7169**	**0.0231**	**4.7800e-003**	**481.7208**

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	0.4569	2.0000e-005	2.5900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.0300e-003	5.0300e-003	1.0000e-005	0.0000	5.3600e-003
Unmitigated	0.4569	2.0000e-005	2.5900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.0300e-003	5.0300e-003	1.0000e-005	0.0000	5.3600e-003

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	0.0283					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4283					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.4000e-004	2.0000e-005	2.5900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.0300e-003	5.0300e-003	1.0000e-005	0.0000	5.3600e-003
Total	**0.4569**	**2.0000e-005**	**2.5900e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**5.0300e-003**	**5.0300e-003**	**1.0000e-005**	**0.0000**	**5.3600e-003**

6.2 Area by SubCategory

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	0.0283					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4283					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.4000e-004	2.0000e-005	2.5900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.0300e-003	5.0300e-003	1.0000e-005	0.0000	5.3600e-003
Total	**0.4569**	**2.0000e-005**	**2.5900e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**5.0300e-003**	**5.0300e-003**	**1.0000e-005**	**0.0000**	**5.3600e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed 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	51.8975	0.4291	0.0106	65.7713
Unmitigated	70.1263	0.5367	0.0133	87.4905

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	4.6805 / 0	18.1153	0.1533	3.7700e-003	23.0708
Hospital	11.6935 / 2.22734	52.0110	0.3834	9.4800e-003	64.4197
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**70.1263**	**0.5367**	**0.0133**	**87.4905**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	3.7444 / 0	14.4923	0.1227	3.0100e-003	18.4566
Hospital	9.35483 / 0.395328	37.4052	0.3065	7.5400e-003	47.3147
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**51.8975**	**0.4291**	**0.0106**	**65.7713**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	52.3488	3.0937	0.0000	129.6920
Unmitigated	209.3953	12.3749	0.0000	518.7681

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	25.1	5.0951	0.3011	0.0000	12.6228
Hospital	1006.45	204.3003	12.0738	0.0000	506.1452
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**209.3953**	**12.3749**	**0.0000**	**518.7681**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	6.275	1.2738	0.0753	0.0000	3.1557
Hospital	251.613	51.0751	3.0185	0.0000	126.5363
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**52.3488**	**3.0937**	**0.0000**	**129.6920**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	50	2667	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1094	0.0537	0.2790	5.3000e-004		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	50.7793	50.7793	7.1200e-003	0.0000	50.9573
Total	**0.1094**	**0.0537**	**0.2790**	**5.3000e-004**		**2.1500e-003**	**2.1500e-003**		**2.1500e-003**	**2.1500e-003**	**0.0000**	**50.7793**	**50.7793**	**7.1200e-003**	**0.0000**	**50.9573**

11.0 Vegetation

Kaiser Moreno Valley - Phase I

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	95.00	1000sqft	2.18	95,000.00	0
General Light Industry	22.00	1000sqft	0.51	22,000.00	0
Other Asphalt Surfaces	85.86	1000sqft	1.97	85,856.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	601.59	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on actual RPS for SCE in 2017.

Land Use - Based on project description.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.
Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - Based on applicant provided information.

On-road Fugitive Dust - CalEEMod defaults.

Grading - CalEEMod defaults. Import based on applicant provided information.

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Based on trip gen for Phase 1.

Road Dust - CalEEMod defaults.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - Based on applicant provided information.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - water 3x daily and vehicle speed limit of 15 mph on unpaved roads.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation - LED lighting.

Water Mitigation -

Waste Mitigation - In accordance with AB 939.

Kaiser Moreno Valley - Phase I - Riverside-South Coast County, Summer

Stationary Sources - Emergency Generators and Fire Pumps -
Stationary Sources - Process Boilers -

Stationary Sources - Emergency Generators and Fire Pumps EF - Based on Tier 4 Final standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	58,500.00	56,718.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	175,500.00	170,154.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	LightingElect	4.52	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24E	5.56	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	NT24NG	6.03	0.00
tblEnergyUse	T24E	2.20	0.00
tblEnergyUse	T24E	8.35	18.51
tblEnergyUse	T24NG	15.36	0.00
tblEnergyUse	T24NG	69.49	285.11
tblGrading	MaterialImported	0.00	6,000.00

Kaiser Moreno Valley - Phase I - Riverside-South Coast County, Summer

tblLandUse	LandUseSquareFeet	85,860.00	85,856.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	601.59
tblSolidWaste	SolidWasteGenerationRate	27.28	25.10
tblSolidWaste	SolidWasteGenerationRate	1,026.00	1,006.45
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50

tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	35.00
tblTripsAndVMT	HaulingTripNumber	0.00	400.00
tblTripsAndVMT	HaulingTripNumber	0.00	100.00
tblTripsAndVMT	HaulingTripNumber	750.00	900.00
tblTripsAndVMT	HaulingTripNumber	0.00	320.00
tblTripsAndVMT	HaulingTripNumber	0.00	96.00
tblTripsAndVMT	HaulingTripNumber	0.00	240.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	33.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	30.00
tblTripsAndVMT	WorkerTripNumber	76.00	300.00
tblTripsAndVMT	WorkerTripNumber	10.00	60.00
tblTripsAndVMT	WorkerTripNumber	8.00	24.00
tblTripsAndVMT	WorkerTripNumber	15.00	30.00
tblVehicleTrips	CC_TL	8.40	2.59
tblVehicleTrips	CC_TTP	16.10	100.00
tblVehicleTrips	CNW_TL	6.90	0.00

tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	64.90	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	73.00	100.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	10.18	5.29
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	8.91	4.63
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	13.22	6.87
tblWater	IndoorWaterUseRate	5,087,500.00	4,680,500.00
tblWater	IndoorWaterUseRate	11,920,651.07	11,693,531.30
tblWater	OutdoorWaterUseRate	2,270,600.20	2,227,339.29

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2020	4.3162	45.4854	29.4093	0.0786	19.1392	2.1082	21.2474	10.1331	1.9397	12.0728	0.0000	7,761.2577	7,761.2577	1.2197	0.0000	7,788.4388
2021	3.4545	22.3765	28.0372	0.0774	3.6291	0.7896	4.4186	0.9683	0.7520	1.7202	0.0000	7,582.0590	7,582.0590	0.9531	0.0000	7,605.8869
2022	37.1898	19.9820	26.9287	0.0761	3.6974	0.6764	4.3738	0.9851	0.6445	1.6295	0.0000	7,457.1419	7,457.1419	0.9351	0.0000	7,480.5193
Maximum	**37.1898**	**45.4854**	**29.4093**	**0.0786**	**19.1392**	**2.1082**	**21.2474**	**10.1331**	**1.9397**	**12.0728**	**0.0000**	**7,761.2577**	**7,761.2577**	**1.2197**	**0.0000**	**7,788.4388**

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	lb/day										lb/day					
2020	2.0956	13.9329	32.4510	0.0786	7.7953	0.0979	7.8649	4.0404	0.0959	4.1096	0.0000	7,761.2577	7,761.2577	1.2197	0.0000	7,788.4388
2021	1.9729	9.0433	31.3529	0.0774	3.6291	0.0792	3.7082	0.9683	0.0773	1.0456	0.0000	7,582.0590	7,582.0590	0.9531	0.0000	7,605.8869
2022	36.8402	8.7375	30.4450	0.0761	3.6974	0.0775	3.7749	0.9851	0.0756	1.0607	0.0000	7,457.1419	7,457.1419	0.9351	0.0000	7,480.5193
Maximum	**36.8402**	**13.9329**	**32.4510**	**0.0786**	**7.7953**	**0.0979**	**7.8649**	**4.0404**	**0.0959**	**4.1096**	**0.0000**	**7,761.2577**	**7,761.2577**	**1.2197**	**0.0000**	**7,788.4388**

	ROG	NOx	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	**9.01**	**63.90**	**-11.70**	**0.00**	**42.86**	**92.88**	**48.91**	**50.41**	**92.54**	**59.70**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	lb/day										lb/day					
Area	2.5040	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473
Energy	0.8003	7.2751	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.1280	8,730.1280	0.1673	0.1601	8,782.0068
Mobile	0.8499	4.9839	5.2336	0.0222	1.3130	0.0117	1.3246	0.3512	0.0109	0.3621		2,279.1434	2,279.1434	0.1505		2,282.9063
Stationary	2.1884	1.0731	5.5799	0.0105		0.0429	0.0429		0.0429	0.0429		1,119.4921	1,119.4921	0.1570		1,123.4159
Total	**6.3425**	**13.3323**	**16.9453**	**0.0764**	**1.3130**	**0.6076**	**1.9205**	**0.3512**	**0.6068**	**0.9580**		**12,128.8079**	**12,128.8079**	**0.4749**	**0.1601**	**12,188.3763**

2.2 Overall Operational

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	lb/day										lb/day					
Area	2.5040	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473
Energy	0.8003	7.2751	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.1280	8,730.1280	0.1673	0.1601	8,782.0068
Mobile	0.8300	4.8592	4.5978	0.0192	1.0504	0.0100	1.0604	0.2810	9.3300e-003	0.2903		1,973.5111	1,973.5111	0.1426		1,977.0752
Stationary	2.1884	1.0731	5.5799	0.0105		0.0429	0.0429		0.0429	0.0429		1,119.4921	1,119.4921	0.1570		1,123.4159
Total	**6.3227**	**13.2076**	**16.3095**	**0.0734**	**1.0504**	**0.6059**	**1.6563**	**0.2810**	**0.6052**	**0.8862**		**11,823.1756**	**11,823.1756**	**0.4670**	**0.1601**	**11,882.5452**

	ROG	NOx	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	**0.31**	**0.94**	**3.75**	**3.93**	**20.00**	**0.27**	**13.76**	**20.00**	**0.25**	**7.49**	**0.00**	**2.52**	**2.52**	**1.67**	**0.00**	**2.51**

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	6/1/2020	6/19/2020	5	15	
2	Site Preparation	Site Preparation	6/20/2020	7/24/2020	5	25	
3	Grading	Grading	7/25/2020	8/28/2020	5	25	
4	Building Construction	Building Construction	8/29/2020	3/11/2022	5	400	
5	Trenching	Trenching	3/12/2022	8/26/2022	5	120	
6	Paving	Paving	8/27/2022	9/23/2022	5	20	
7	Architectural Coating	Architectural Coating	9/24/2022	10/14/2022	5	15	

Acres of Grading (Site Preparation Phase): 12.5

Acres of Grading (Grading Phase): 25

Acres of Paving: 1.97

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 170,154; Non-Residential Outdoor: 56,718; Striped Parking Area: 5,151 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crawler Tractors	1	8.00	212	0.43
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Scrapers	0	8.00	367	0.48

Site Preparation	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Bore/Drill Rigs	1	8.00	221	0.50
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	0	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Trenching	Excavators	1	8.00	158	0.38
Trenching	Rollers	1	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Coating	Air Compressors	2	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	40.00	4.00	400.00	14.70	6.90	40.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	6	40.00	4.00	100.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	30.00	4.00	900.00	14.70	6.90	35.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	300.00	40.00	320.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	60.00	4.00	96.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	24.00	2.00	240.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	30.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved 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	lb/day										lb/day					
Off-Road	1.8974	21.2003	16.2185	0.0327		0.9108	0.9108		0.8379	0.8379		3,166.6721	3,166.6721	1.0242		3,192.2763
Total	**1.8974**	**21.2003**	**16.2185**	**0.0327**		**0.9108**	**0.9108**		**0.8379**	**0.8379**		**3,166.6721**	**3,166.6721**	**1.0242**		**3,192.2763**

3.2 Demolition - 2020

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	lb/day										lb/day					
Hauling	0.2212	9.7208	1.3227	0.0367	0.9324	0.0392	0.9717	0.2556	0.0375	0.2931		3,891.1055	3,891.1055	0.1668		3,895.2750
Vendor	0.0112	0.4116	0.0753	1.0400e-003	0.0256	2.3400e-003	0.0280	7.3700e-003	2.2400e-003	9.6100e-003		110.1564	110.1564	8.2600e-003		110.3629
Worker	0.2036	0.1204	1.6129	4.4200e-003	0.4471	2.7100e-003	0.4498	0.1186	2.4900e-003	0.1211		440.6378	440.6378	0.0113		440.9202
Total	**0.4359**	**10.2528**	**3.0108**	**0.0421**	**1.4052**	**0.0443**	**1.4494**	**0.3815**	**0.0423**	**0.4238**		**4,441.8997**	**4,441.8997**	**0.1863**		**4,446.5581**

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	lb/day										lb/day					
Off-Road	0.4024	1.7437	20.4689	0.0327		0.0537	0.0537		0.0537	0.0537	0.0000	3,166.6721	3,166.6721	1.0242		3,192.2763
Total	**0.4024**	**1.7437**	**20.4689**	**0.0327**		**0.0537**	**0.0537**		**0.0537**	**0.0537**	**0.0000**	**3,166.6721**	**3,166.6721**	**1.0242**		**3,192.2763**

3.2 Demolition - 2020

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	lb/day										lb/day					
Hauling	0.2212	9.7208	1.3227	0.0367	0.9324	0.0392	0.9717	0.2556	0.0375	0.2931		3,891.1055	3,891.1055	0.1668		3,895.2750
Vendor	0.0112	0.4116	0.0753	1.0400e-003	0.0256	2.3400e-003	0.0280	7.3700e-003	2.2400e-003	9.6100e-003		110.1564	110.1564	8.2600e-003		110.3629
Worker	0.2036	0.1204	1.6129	4.4200e-003	0.4471	2.7100e-003	0.4498	0.1186	2.4900e-003	0.1211		440.6378	440.6378	0.0113		440.9202
Total	**0.4359**	**10.2528**	**3.0108**	**0.0421**	**1.4052**	**0.0443**	**1.4494**	**0.3815**	**0.0423**	**0.4238**		**4,441.8997**	**4,441.8997**	**0.1863**		**4,446.5581**

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	lb/day										lb/day					
Fugitive Dust					18.5965	0.0000	18.5965	9.9879	0.0000	9.9879			0.0000			0.0000
Off-Road	4.0809	44.0063	18.1988	0.0377		2.1001	2.1001		1.9321	1.9321		3,651.0911	3,651.0911	1.1808		3,680.6120
Total	**4.0809**	**44.0063**	**18.1988**	**0.0377**	**18.5965**	**2.1001**	**20.6966**	**9.9879**	**1.9321**	**11.9201**		**3,651.0911**	**3,651.0911**	**1.1808**		**3,680.6120**

3.3 Site Preparation - 2020

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	lb/day										lb/day					
Hauling	0.0206	0.9471	0.1169	3.0500e-003	0.0700	3.0200e-003	0.0730	0.0192	2.8900e-003	0.0221		323.1069	323.1069	0.0193		323.5883
Vendor	0.0112	0.4116	0.0753	1.0400e-003	0.0256	2.3400e-003	0.0280	7.3700e-003	2.2400e-003	9.6100e-003		110.1564	110.1564	8.2600e-003		110.3629
Worker	0.2036	0.1204	1.6129	4.4200e-003	0.4471	2.7100e-003	0.4498	0.1186	2.4900e-003	0.1211		440.6378	440.6378	0.0113		440.9202
Total	**0.2353**	**1.4791**	**1.8050**	**8.5100e-003**	**0.5427**	**8.0700e-003**	**0.5508**	**0.1451**	**7.6200e-003**	**0.1528**		**873.9011**	**873.9011**	**0.0388**		**874.8714**

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	lb/day										lb/day					
Fugitive Dust					7.2526	0.0000	7.2526	3.8953	0.0000	3.8953			0.0000			0.0000
Off-Road	0.4613	1.9988	18.5742	0.0377		0.0615	0.0615		0.0615	0.0615	0.0000	3,651.0911	3,651.0911	1.1808		3,680.6120
Total	**0.4613**	**1.9988**	**18.5742**	**0.0377**	**7.2526**	**0.0615**	**7.3141**	**3.8953**	**0.0615**	**3.9568**	**0.0000**	**3,651.0911**	**3,651.0911**	**1.1808**		**3,680.6120**

3.3 Site Preparation - 2020

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	lb/day										lb/day					
Hauling	0.0206	0.9471	0.1169	3.0500e-003	0.0700	3.0200e-003	0.0730	0.0192	2.8900e-003	0.0221		323.1069	323.1069	0.0193		323.5883
Vendor	0.0112	0.4116	0.0753	1.0400e-003	0.0256	2.3400e-003	0.0280	7.3700e-003	2.2400e-003	9.6100e-003		110.1564	110.1564	8.2600e-003		110.3629
Worker	0.2036	0.1204	1.6129	4.4200e-003	0.4471	2.7100e-003	0.4498	0.1186	2.4900e-003	0.1211		440.6378	440.6378	0.0113		440.9202
Total	**0.2353**	**1.4791**	**1.8050**	**8.5100e-003**	**0.5427**	**8.0700e-003**	**0.5508**	**0.1451**	**7.6200e-003**	**0.1528**		**873.9011**	**873.9011**	**0.0388**		**874.8714**

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	lb/day										lb/day					
Fugitive Dust					1.0909	0.0000	1.0909	0.1191	0.0000	0.1191			0.0000			0.0000
Off-Road	1.7540	21.3153	10.5269	0.0274		0.7842	0.7842		0.7214	0.7214		2,653.8881	2,653.8881	0.8583		2,675.3462
Total	**1.7540**	**21.3153**	**10.5269**	**0.0274**	**1.0909**	**0.7842**	**1.8751**	**0.1191**	**0.7214**	**0.8406**		**2,653.8881**	**2,653.8881**	**0.8583**		**2,675.3462**

3.4 Grading - 2020

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	lb/day										lb/day					
Hauling	0.2702	11.9734	1.6022	0.0440	1.1015	0.0465	1.1480	0.3019	0.0445	0.3464		4,666.7349	4,666.7349	0.2122		4,672.0396
Vendor	0.0112	0.4116	0.0753	1.0400e-003	0.0256	2.3400e-003	0.0280	7.3700e-003	2.2400e-003	9.6100e-003		110.1564	110.1564	8.2600e-003		110.3629
Worker	0.1527	0.0903	1.2096	3.3200e-003	0.3353	2.0300e-003	0.3374	0.0889	1.8700e-003	0.0908		330.4784	330.4784	8.4700e-003		330.6901
Total	**0.4340**	**12.4753**	**2.8871**	**0.0483**	**1.4625**	**0.0509**	**1.5134**	**0.3982**	**0.0486**	**0.4468**		**5,107.3696**	**5,107.3696**	**0.2289**		**5,113.0927**

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	lb/day										lb/day					
Fugitive Dust					0.4255	0.0000	0.4255	0.0465	0.0000	0.0465			0.0000			0.0000
Off-Road	0.3364	1.4576	14.7527	0.0274		0.0449	0.0449		0.0449	0.0449	0.0000	2,653.8881	2,653.8881	0.8583		2,675.3462
Total	**0.3364**	**1.4576**	**14.7527**	**0.0274**	**0.4255**	**0.0449**	**0.4703**	**0.0465**	**0.0449**	**0.0913**	**0.0000**	**2,653.8881**	**2,653.8881**	**0.8583**		**2,675.3462**

3.4 Grading - 2020

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	lb/day										lb/day					
Hauling	0.2702	11.9734	1.6022	0.0440	1.1015	0.0465	1.1480	0.3019	0.0445	0.3464		4,666.7349	4,666.7349	0.2122		4,672.0396
Vendor	0.0112	0.4116	0.0753	1.0400e-003	0.0256	2.3400e-003	0.0280	7.3700e-003	2.2400e-003	9.6100e-003		110.1564	110.1564	8.2600e-003		110.3629
Worker	0.1527	0.0903	1.2096	3.3200e-003	0.3353	2.0300e-003	0.3374	0.0889	1.8700e-003	0.0908		330.4784	330.4784	8.4700e-003		330.6901
Total	**0.4340**	**12.4753**	**2.8871**	**0.0483**	**1.4625**	**0.0509**	**1.5134**	**0.3982**	**0.0486**	**0.4468**		**5,107.3696**	**5,107.3696**	**0.2289**		**5,113.0927**

3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	2.1443	19.4875	16.5366	0.0343		0.8803	0.8803		0.8395	0.8395		3,228.4633	3,228.4633	0.8049		3,248.5848
Total	**2.1443**	**19.4875**	**16.5366**	**0.0343**		**0.8803**	**0.8803**		**0.8395**	**0.8395**		**3,228.4633**	**3,228.4633**	**0.8049**		**3,248.5848**

3.5 Building Construction - 2020

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	lb/day										lb/day					
Hauling	4.1100e-003	0.1894	0.0234	6.1000e-004	0.0510	6.0000e-004	0.0516	0.0129	5.8000e-004	0.0135		64.6214	64.6214	3.8500e-003		64.7177
Vendor	0.1115	4.1157	0.7529	0.0105	0.2561	0.0234	0.2796	0.0738	0.0224	0.0961		1,101.5637	1,101.5637	0.0826		1,103.6293
Worker	1.5266	0.9029	12.0965	0.0332	3.3533	0.0203	3.3736	0.8893	0.0187	0.9080		3,304.7836	3,304.7836	0.0847		3,306.9014
Total	**1.6422**	**5.2080**	**12.8728**	**0.0442**	**3.6604**	**0.0443**	**3.7047**	**0.9760**	**0.0417**	**1.0176**		**4,470.9687**	**4,470.9687**	**0.1712**		**4,475.2483**

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	lb/day										lb/day					
Off-Road	0.4534	4.3576	19.5782	0.0343		0.0519	0.0519		0.0519	0.0519	0.0000	3,228.4633	3,228.4633	0.8049		3,248.5848
Total	**0.4534**	**4.3576**	**19.5782**	**0.0343**		**0.0519**	**0.0519**		**0.0519**	**0.0519**	**0.0000**	**3,228.4633**	**3,228.4633**	**0.8049**		**3,248.5848**

3.5 Building Construction - 2020

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	lb/day										lb/day					
Hauling	4.1100e-003	0.1894	0.0234	6.1000e-004	0.0510	6.0000e-004	0.0516	0.0129	5.8000e-004	0.0135		64.6214	64.6214	3.8500e-003		64.7177
Vendor	0.1115	4.1157	0.7529	0.0105	0.2561	0.0234	0.2796	0.0738	0.0224	0.0961		1,101.5637	1,101.5637	0.0826		1,103.6293
Worker	1.5266	0.9029	12.0965	0.0332	3.3533	0.0203	3.3736	0.8893	0.0187	0.9080		3,304.7836	3,304.7836	0.0847		3,306.9014
Total	**1.6422**	**5.2080**	**12.8728**	**0.0442**	**3.6604**	**0.0443**	**3.7047**	**0.9760**	**0.0417**	**1.0176**		**4,470.9687**	**4,470.9687**	**0.1712**		**4,475.2483**

3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.9349	17.6908	16.2626	0.0343		0.7622	0.7622		0.7265	0.7265		3,230.8554	3,230.8554	0.7950		3,250.7315
Total	**1.9349**	**17.6908**	**16.2626**	**0.0343**		**0.7622**	**0.7622**		**0.7265**	**0.7265**		**3,230.8554**	**3,230.8554**	**0.7950**		**3,250.7315**

3.5 Building Construction - 2021

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	lb/day										lb/day					
Hauling	3.8900e-003	0.1739	0.0229	6.0000e-004	0.0196	5.3000e-004	0.0202	5.2200e-003	5.1000e-004	5.7300e-003		63.9468	63.9468	3.7100e-003		64.0397
Vendor	0.0934	3.7016	0.6604	0.0104	0.2561	7.0400e-003	0.2632	0.0738	6.7300e-003	0.0805		1,093.0041	1,093.0041	0.0782		1,094.9589
Worker	1.4223	0.8103	11.0914	0.0321	3.3533	0.0198	3.3731	0.8893	0.0182	0.9075		3,194.2527	3,194.2527	0.0762		3,196.1568
Total	**1.5196**	**4.6857**	**11.7746**	**0.0430**	**3.6291**	**0.0273**	**3.6564**	**0.9683**	**0.0254**	**0.9937**		**4,351.2036**	**4,351.2036**	**0.1581**		**4,355.1554**

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	lb/day										lb/day					
Off-Road	0.4534	4.3576	19.5782	0.0343		0.0519	0.0519		0.0519	0.0519	0.0000	3,230.8554	3,230.8554	0.7950		3,250.7315
Total	**0.4534**	**4.3576**	**19.5782**	**0.0343**		**0.0519**	**0.0519**		**0.0519**	**0.0519**	**0.0000**	**3,230.8554**	**3,230.8554**	**0.7950**		**3,250.7315**

3.5 Building Construction - 2021

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	lb/day										lb/day					
Hauling	3.8900e-003	0.1739	0.0229	6.0000e-004	0.0196	5.3000e-004	0.0202	5.2200e-003	5.1000e-004	5.7300e-003		63.9468	63.9468	3.7100e-003		64.0397
Vendor	0.0934	3.7016	0.6604	0.0104	0.2561	7.0400e-003	0.2632	0.0738	6.7300e-003	0.0805		1,093.0041	1,093.0041	0.0782		1,094.9589
Worker	1.4223	0.8103	11.0914	0.0321	3.3533	0.0198	3.3731	0.8893	0.0182	0.9075		3,194.2527	3,194.2527	0.0762		3,196.1568
Total	**1.5196**	**4.6857**	**11.7746**	**0.0430**	**3.6291**	**0.0273**	**3.6564**	**0.9683**	**0.0254**	**0.9937**		**4,351.2036**	**4,351.2036**	**0.1581**		**4,355.1554**

3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.7520	15.6021	16.0619	0.0344		0.6508	0.6508		0.6207	0.6207		3,232.6847	3,232.6847	0.7891		3,252.4113
Total	**1.7520**	**15.6021**	**16.0619**	**0.0344**		**0.6508**	**0.6508**		**0.6207**	**0.6207**		**3,232.6847**	**3,232.6847**	**0.7891**		**3,252.4113**

3.5 Building Construction - 2022

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	lb/day										lb/day					
Hauling	3.6600e-003	0.1584	0.0222	6.0000e-004	0.0880	4.4000e-004	0.0885	0.0220	4.2000e-004	0.0224		63.2184	63.2184	3.5600e-003		63.3075
Vendor	0.0871	3.4923	0.6143	0.0103	0.2561	5.9200e-003	0.2620	0.0737	5.6600e-003	0.0794		1,083.7007	1,083.7007	0.0741		1,085.5521
Worker	1.3304	0.7292	10.2303	0.0309	3.3533	0.0192	3.3725	0.8893	0.0177	0.9070		3,077.5381	3,077.5381	0.0684		3,079.2485
Total	**1.4211**	**4.3799**	**10.8668**	**0.0418**	**3.6974**	**0.0256**	**3.7230**	**0.9851**	**0.0238**	**1.0089**		**4,224.4572**	**4,224.4572**	**0.1460**		**4,228.1080**

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	lb/day										lb/day					
Off-Road	0.4534	4.3576	19.5782	0.0344		0.0519	0.0519		0.0519	0.0519	0.0000	3,232.6847	3,232.6847	0.7891		3,252.4113
Total	**0.4534**	**4.3576**	**19.5782**	**0.0344**		**0.0519**	**0.0519**		**0.0519**	**0.0519**	**0.0000**	**3,232.6847**	**3,232.6847**	**0.7891**		**3,252.4113**

3.5 Building Construction - 2022

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	lb/day										lb/day					
Hauling	3.6600e-003	0.1584	0.0222	6.0000e-004	0.0880	4.4000e-004	0.0885	0.0220	4.2000e-004	0.0224		63.2184	63.2184	3.5600e-003		63.3075
Vendor	0.0871	3.4923	0.6143	0.0103	0.2561	5.9200e-003	0.2620	0.0737	5.6600e-003	0.0794		1,083.7007	1,083.7007	0.0741		1,085.5521
Worker	1.3304	0.7292	10.2303	0.0309	3.3533	0.0192	3.3725	0.8893	0.0177	0.9070		3,077.5381	3,077.5381	0.0684		3,079.2485
Total	**1.4211**	**4.3799**	**10.8668**	**0.0418**	**3.6974**	**0.0256**	**3.7230**	**0.9851**	**0.0238**	**1.0089**		**4,224.4572**	**4,224.4572**	**0.1460**		**4,228.1080**

3.6 Trenching - 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	lb/day										lb/day					
Off-Road	0.6981	6.8542	9.5914	0.0140		0.3656	0.3656		0.3364	0.3364		1,356.5970	1,356.5970	0.4388		1,367.5658
Total	**0.6981**	**6.8542**	**9.5914**	**0.0140**		**0.3656**	**0.3656**		**0.3364**	**0.3364**		**1,356.5970**	**1,356.5970**	**0.4388**		**1,367.5658**

3.6 Trenching - 2022

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	lb/day										lb/day					
Hauling	3.6600e-003	0.1584	0.0222	6.0000e-004	0.0140	4.4000e-004	0.0144	3.8400e-003	4.2000e-004	4.2600e-003		63.2184	63.2184	3.5600e-003		63.3075
Vendor	8.7100e-003	0.3492	0.0614	1.0300e-003	0.0256	5.9000e-004	0.0262	7.3700e-003	5.7000e-004	7.9400e-003		108.3701	108.3701	7.4100e-003		108.5552
Worker	0.2661	0.1458	2.0461	6.1800e-003	0.6707	3.8500e-003	0.6745	0.1779	3.5400e-003	0.1814		615.5076	615.5076	0.0137		615.8497
Total	**0.2784**	**0.6535**	**2.1297**	**7.8100e-003**	**0.7103**	**4.8800e-003**	**0.7151**	**0.1891**	**4.5300e-003**	**0.1936**		**787.0961**	**787.0961**	**0.0247**		**787.7124**

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	lb/day										lb/day					
Off-Road	0.1717	0.7439	10.5860	0.0140		0.0229	0.0229		0.0229	0.0229	0.0000	1,356.5970	1,356.5970	0.4388		1,367.5658
Total	**0.1717**	**0.7439**	**10.5860**	**0.0140**		**0.0229**	**0.0229**		**0.0229**	**0.0229**	**0.0000**	**1,356.5970**	**1,356.5970**	**0.4388**		**1,367.5658**

3.6 Trenching - 2022

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	lb/day										lb/day					
Hauling	3.6600e-003	0.1584	0.0222	6.0000e-004	0.0140	4.4000e-004	0.0144	3.8400e-003	4.2000e-004	4.2600e-003		63.2184	63.2184	3.5600e-003		63.3075
Vendor	8.7100e-003	0.3492	0.0614	1.0300e-003	0.0256	5.9000e-004	0.0262	7.3700e-003	5.7000e-004	7.9400e-003		108.3701	108.3701	7.4100e-003		108.5552
Worker	0.2661	0.1458	2.0461	6.1800e-003	0.6707	3.8500e-003	0.6745	0.1779	3.5400e-003	0.1814		615.5076	615.5076	0.0137		615.8497
Total	**0.2784**	**0.6535**	**2.1297**	**7.8100e-003**	**0.7103**	**4.8800e-003**	**0.7151**	**0.1891**	**4.5300e-003**	**0.1936**		**787.0961**	**787.0961**	**0.0247**		**787.7124**

3.7 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	lb/day										lb/day					
Off-Road	0.5514	5.5624	7.2902	0.0114		0.2840	0.2840		0.2612	0.2612		1,103.8302	1,103.8302	0.3570		1,112.7552
Paving	0.2581					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8095**	**5.5624**	**7.2902**	**0.0114**		**0.2840**	**0.2840**		**0.2612**	**0.2612**		**1,103.8302**	**1,103.8302**	**0.3570**		**1,112.7552**

3.7 Paving - 2022

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	lb/day										lb/day					
Hauling	0.0549	2.3765	0.3328	8.9300e-003	0.2099	6.5800e-003	0.2165	0.0575	6.3000e-003	0.0638		948.2754	948.2754	0.0535		949.6119
Vendor	4.3500e-003	0.1746	0.0307	5.1000e-004	0.0128	3.0000e-004	0.0131	3.6900e-003	2.8000e-004	3.9700e-003		54.1850	54.1850	3.7000e-003		54.2776
Worker	0.1064	0.0583	0.8184	2.4700e-003	0.2683	1.5400e-003	0.2698	0.0711	1.4200e-003	0.0726		246.2031	246.2031	5.4700e-003		246.3399
Total	**0.1656**	**2.6095**	**1.1820**	**0.0119**	**0.4910**	**8.4200e-003**	**0.4994**	**0.1324**	**8.0000e-003**	**0.1404**		**1,248.6635**	**1,248.6635**	**0.0626**		**1,250.2294**

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	lb/day										lb/day					
Off-Road	0.1402	0.6077	8.6478	0.0114		0.0187	0.0187		0.0187	0.0187	0.0000	1,103.8302	1,103.8302	0.3570		1,112.7552
Paving	0.2581					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3983**	**0.6077**	**8.6478**	**0.0114**		**0.0187**	**0.0187**		**0.0187**	**0.0187**	**0.0000**	**1,103.8302**	**1,103.8302**	**0.3570**		**1,112.7552**

3.7 Paving - 2022

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	lb/day										lb/day					
Hauling	0.0549	2.3765	0.3328	8.9300e-003	0.2099	6.5800e-003	0.2165	0.0575	6.3000e-003	0.0638		948.2754	948.2754	0.0535		949.6119
Vendor	4.3500e-003	0.1746	0.0307	5.1000e-004	0.0128	3.0000e-004	0.0131	3.6900e-003	2.8000e-004	3.9700e-003		54.1850	54.1850	3.7000e-003		54.2776
Worker	0.1064	0.0583	0.8184	2.4700e-003	0.2683	1.5400e-003	0.2698	0.0711	1.4200e-003	0.0726		246.2031	246.2031	5.4700e-003		246.3399
Total	**0.1656**	**2.6095**	**1.1820**	**0.0119**	**0.4910**	**8.4200e-003**	**0.4994**	**0.1324**	**8.0000e-003**	**0.1404**		**1,248.6635**	**1,248.6635**	**0.0626**		**1,250.2294**

3.8 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	36.6434					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4091	2.8170	3.6272	5.9400e-003		0.1634	0.1634		0.1634	0.1634		562.8961	562.8961	0.0367		563.8123
Total	**37.0525**	**2.8170**	**3.6272**	**5.9400e-003**		**0.1634**	**0.1634**		**0.1634**	**0.1634**		**562.8961**	**562.8961**	**0.0367**		**563.8123**

3.8 Architectural Coating - 2022

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	lb/day										lb/day					
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
Vendor	4.3500e-003	0.1746	0.0307	5.1000e-004	0.0128	3.0000e-004	0.0131	3.6900e-003	2.8000e-004	3.9700e-003		54.1850	54.1850	3.7000e-003		54.2776
Worker	0.1330	0.0729	1.0230	3.0900e-003	0.3353	1.9200e-003	0.3373	0.0889	1.7700e-003	0.0907		307.7538	307.7538	6.8400e-003		307.9249
Total	**0.1374**	**0.2475**	**1.0537**	**3.6000e-003**	**0.3481**	**2.2200e-003**	**0.3504**	**0.0926**	**2.0500e-003**	**0.0947**		**361.9389**	**361.9389**	**0.0105**		**362.2025**

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	lb/day										lb/day					
Archit. Coating	36.6434					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0367		563.8123
Total	**36.7028**	**0.2575**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0367**		**563.8123**

3.8 Architectural Coating - 2022

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	lb/day										lb/day					
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
Vendor	4.3500e-003	0.1746	0.0307	5.1000e-004	0.0128	3.0000e-004	0.0131	3.6900e-003	2.8000e-004	3.9700e-003		54.1850	54.1850	3.7000e-003		54.2776
Worker	0.1330	0.0729	1.0230	3.0900e-003	0.3353	1.9200e-003	0.3373	0.0889	1.7700e-003	0.0907		307.7538	307.7538	6.8400e-003		307.9249
Total	**0.1374**	**0.2475**	**1.0537**	**3.6000e-003**	**0.3481**	**2.2200e-003**	**0.3504**	**0.0926**	**2.0500e-003**	**0.0947**		**361.9389**	**361.9389**	**0.0105**		**362.2025**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Limit Parking Supply

Implement Trip Reduction Program

Market Commute Trip Reduction Option

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8300	4.8592	4.5978	0.0192	1.0504	0.0100	1.0604	0.2810	9.3300e-003	0.2903		1,973.5111	1,973.5111	0.1426		1,977.0752
Unmitigated	0.8499	4.9839	5.2336	0.0222	1.3130	0.0117	1.3246	0.3512	0.0109	0.3621		2,279.1434	2,279.1434	0.1505		2,282.9063

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Hospital	653.00	502.84	440.11	566,817	453,454
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	653.00	502.84	440.11	566,817	453,454

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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Hospital	0.00	2.59	0.00	0.00	100.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Hospital	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Other Asphalt Surfaces	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898

5.0 Energy Detail

Historical Energy Use: N

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	lb/day										lb/day					
NaturalGas Mitigated	0.8003	7.2751	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.1280	8,730.1280	0.1673	0.1601	8,782.0068
NaturalGas Unmitigated	0.8003	7.2751	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.1280	8,730.1280	0.1673	0.1601	8,782.0068

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	lb/day										lb/day					
General Light Industry	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
Hospital	74206.1	0.8003	7.2751	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.1280	8,730.1280	0.1673	0.1601	8,782.0068
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
Total		**0.8003**	**7.2751**	**6.1111**	**0.0437**		**0.5529**	**0.5529**		**0.5529**	**0.5529**		**8,730.1280**	**8,730.1280**	**0.1673**	**0.1601**	**8,782.0068**

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	lb/day										lb/day					
General Light Industry	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
Hospital	74.2061	0.8003	7.2751	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.1280	8,730.1280	0.1673	0.1601	8,782.0068
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
Total		**0.8003**	**7.2751**	**6.1111**	**0.0437**		**0.5529**	**0.5529**		**0.5529**	**0.5529**		**8,730.1280**	**8,730.1280**	**0.1673**	**0.1601**	**8,782.0068**

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	lb/day										lb/day					
Mitigated	2.5040	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473
Unmitigated	2.5040	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473

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	lb/day										lb/day					
Architectural Coating	0.1551					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9200e-003	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473
Total	**2.5041**	**1.9000e-004**	**0.0207**	**0.0000**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**		**0.0444**	**0.0444**	**1.2000e-004**		**0.0473**

6.2 Area by SubCategory

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	lb/day										lb/day					
Architectural Coating	0.1551					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9200e-003	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473
Total	**2.5041**	**1.9000e-004**	**0.0207**	**0.0000**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**		**0.0444**	**0.0444**	**1.2000e-004**		**0.0473**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	50	2667	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (750 - 9999 HP)	2.1884	1.0731	5.5799	0.0105		0.0429	0.0429		0.0429	0.0429		1,119.4921	1,119.4921	0.1570		1,123.4159
Total	**2.1884**	**1.0731**	**5.5799**	**0.0105**		**0.0429**	**0.0429**		**0.0429**	**0.0429**		**1,119.4921**	**1,119.4921**	**0.1570**		**1,123.4159**

11.0 Vegetation

Kaiser Moreno Valley - Phase I

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	95.00	1000sqft	2.18	95,000.00	0
General Light Industry	22.00	1000sqft	0.51	22,000.00	0
Other Asphalt Surfaces	85.86	1000sqft	1.97	85,856.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	601.59	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on actual RPS for SCE in 2017.

Land Use - Based on project description.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.
Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - Based on applicant provided information.

On-road Fugitive Dust - CalEEMod defaults.

Grading - CalEEMod defaults. Import based on applicant provided information.

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Based on trip gen for Phase 1.

Road Dust - CalEEMod defaults.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - Based on applicant provided information.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - water 3x daily and vehicle speed limit of 15 mph on unpaved roads.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation - LED lighting.

Water Mitigation -

Waste Mitigation - In accordance with AB 939.

Kaiser Moreno Valley - Phase I - Riverside-South Coast County, Winter

Stationary Sources - Emergency Generators and Fire Pumps -
Stationary Sources - Process Boilers -

Stationary Sources - Emergency Generators and Fire Pumps EF - Based on Tier 4 Final standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	58,500.00	56,718.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	175,500.00	170,154.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	LightingElect	4.52	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24E	5.56	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	NT24NG	6.03	0.00
tblEnergyUse	T24E	2.20	0.00
tblEnergyUse	T24E	8.35	18.51
tblEnergyUse	T24NG	15.36	0.00
tblEnergyUse	T24NG	69.49	285.11
tblGrading	MaterialImported	0.00	6,000.00

Kaiser Moreno Valley - Phase I - Riverside-South Coast County, Winter

tblLandUse	LandUseSquareFeet	85,860.00	85,856.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	601.59
tblSolidWaste	SolidWasteGenerationRate	27.28	25.10
tblSolidWaste	SolidWasteGenerationRate	1,026.00	1,006.45
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50

Kaiser Moreno Valley - Phase I - Riverside-South Coast County, Winter

tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	35.00
tblTripsAndVMT	HaulingTripNumber	0.00	400.00
tblTripsAndVMT	HaulingTripNumber	0.00	100.00
tblTripsAndVMT	HaulingTripNumber	750.00	900.00
tblTripsAndVMT	HaulingTripNumber	0.00	320.00
tblTripsAndVMT	HaulingTripNumber	0.00	96.00
tblTripsAndVMT	HaulingTripNumber	0.00	240.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	33.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	30.00
tblTripsAndVMT	WorkerTripNumber	76.00	300.00
tblTripsAndVMT	WorkerTripNumber	10.00	60.00
tblTripsAndVMT	WorkerTripNumber	8.00	24.00
tblTripsAndVMT	WorkerTripNumber	15.00	30.00
tblVehicleTrips	CC_TL	8.40	2.59
tblVehicleTrips	CC_TTP	16.10	100.00
tblVehicleTrips	CNW_TL	6.90	0.00

tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	64.90	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	73.00	100.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	10.18	5.29
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	8.91	4.63
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	13.22	6.87
tblWater	IndoorWaterUseRate	5,087,500.00	4,680,500.00
tblWater	IndoorWaterUseRate	11,920,651.07	11,693,531.30
tblWater	OutdoorWaterUseRate	2,270,600.20	2,227,339.29

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2020	4.3137	45.4957	27.2308	0.0747	19.1392	2.1083	21.2475	10.1331	1.9398	12.0729	0.0000	7,650.3568	7,650.3568	1.2221	0.0000	7,677.9428
2021	3.4340	22.3735	26.0234	0.0737	3.6291	0.7898	4.4188	0.9683	0.7522	1.7204	0.0000	7,210.6691	7,210.6691	0.9525	0.0000	7,234.4804
2022	37.1880	19.9723	25.0623	0.0725	3.6974	0.6766	4.3740	0.9851	0.6447	1.6297	0.0000	7,098.0266	7,098.0266	0.9351	0.0000	7,121.4042
Maximum	**37.1880**	**45.4957**	**27.2308**	**0.0747**	**19.1392**	**2.1083**	**21.2475**	**10.1331**	**1.9398**	**12.0729**	**0.0000**	**7,650.3568**	**7,650.3568**	**1.2221**	**0.0000**	**7,677.9428**

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	lb/day										lb/day					
2020	2.0704	14.1887	30.2724	0.0747	7.7953	0.0982	7.8650	4.0404	0.0962	4.1096	0.0000	7,650.3568	7,650.3568	1.2221	0.0000	7,677.9428
2021	1.9524	9.0403	29.3390	0.0737	3.6291	0.0794	3.7085	0.9683	0.0775	1.0458	0.0000	7,210.6691	7,210.6691	0.9525	0.0000	7,234.4804
2022	36.8384	8.7278	28.5786	0.0725	3.6974	0.0777	3.7751	0.9851	0.0758	1.0609	0.0000	7,098.0266	7,098.0266	0.9351	0.0000	7,121.4042
Maximum	**36.8384**	**14.1887**	**30.2724**	**0.0747**	**7.7953**	**0.0982**	**7.8650**	**4.0404**	**0.0962**	**4.1096**	**0.0000**	**7,650.3568**	**7,650.3568**	**1.2221**	**0.0000**	**7,677.9428**

	ROG	NOx	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	**9.07**	**63.62**	**-12.61**	**0.00**	**42.86**	**92.86**	**48.91**	**50.41**	**92.52**	**59.69**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	lb/day										lb/day					
Area	2.5040	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473
Energy	0.8003	7.2751	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.1280	8,730.1280	0.1673	0.1601	8,782.0068
Mobile	0.6899	4.8845	4.9994	0.0203	1.3130	0.0119	1.3248	0.3512	0.0111	0.3623		2,083.7797	2,083.7797	0.1631		2,087.8572
Stationary	2.1884	1.0731	5.5799	0.0105		0.0429	0.0429		0.0429	0.0429		1,119.4921	1,119.4921	0.1570		1,123.4159
Total	**6.1826**	**13.2328**	**16.7110**	**0.0744**	**1.3130**	**0.6078**	**1.9207**	**0.3512**	**0.6070**	**0.9582**		**11,933.4442**	**11,933.4442**	**0.4875**	**0.1601**	**11,993.3272**

2.2 Overall Operational

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	lb/day										lb/day					
Area	2.5040	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473
Energy	0.8003	7.2751	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.1280	8,730.1280	0.1673	0.1601	8,782.0068
Mobile	0.6714	4.7537	4.4915	0.0175	1.0504	0.0102	1.0606	0.2810	9.5300e-003	0.2905		1,799.5182	1,799.5182	0.1557		1,803.4103
Stationary	2.1884	1.0731	5.5799	0.0105		0.0429	0.0429		0.0429	0.0429		1,119.4921	1,119.4921	0.1570		1,123.4159
Total	**6.1640**	**13.1020**	**16.2032**	**0.0717**	**1.0504**	**0.6061**	**1.6565**	**0.2810**	**0.6054**	**0.8864**		**11,649.1827**	**11,649.1827**	**0.4801**	**0.1601**	**11,708.8803**

	ROG	NOx	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	**0.30**	**0.99**	**3.04**	**3.73**	**20.00**	**0.27**	**13.76**	**20.00**	**0.25**	**7.49**	**0.00**	**2.38**	**2.38**	**1.52**	**0.00**	**2.37**

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	6/1/2020	6/19/2020	5	15	
2	Site Preparation	Site Preparation	6/20/2020	7/24/2020	5	25	
3	Grading	Grading	7/25/2020	8/28/2020	5	25	
4	Building Construction	Building Construction	8/29/2020	3/11/2022	5	400	
5	Trenching	Trenching	3/12/2022	8/26/2022	5	120	
6	Paving	Paving	8/27/2022	9/23/2022	5	20	
7	Architectural Coating	Architectural Coating	9/24/2022	10/14/2022	5	15	

Acres of Grading (Site Preparation Phase): 12.5

Acres of Grading (Grading Phase): 25

Acres of Paving: 1.97

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 170,154; Non-Residential Outdoor: 56,718; Striped Parking Area: 5,151 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crawler Tractors	1	8.00	212	0.43
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Scrapers	0	8.00	367	0.48

Site Preparation	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Bore/Drill Rigs	1	8.00	221	0.50
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	0	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Trenching	Excavators	1	8.00	158	0.38
Trenching	Rollers	1	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Coating	Air Compressors	2	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	40.00	4.00	400.00	14.70	6.90	40.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	6	40.00	4.00	100.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	30.00	4.00	900.00	14.70	6.90	35.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	300.00	40.00	320.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	60.00	4.00	96.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	24.00	2.00	240.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	30.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved 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	lb/day										lb/day					
Off-Road	1.8974	21.2003	16.2185	0.0327		0.9108	0.9108		0.8379	0.8379		3,166.6721	3,166.6721	1.0242		3,192.2763
Total	**1.8974**	**21.2003**	**16.2185**	**0.0327**		**0.9108**	**0.9108**		**0.8379**	**0.8379**		**3,166.6721**	**3,166.6721**	**1.0242**		**3,192.2763**

3.2 Demolition - 2020

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	lb/day										lb/day					
Hauling	0.2282	9.9542	1.4535	0.0362	0.9324	0.0395	0.9720	0.2556	0.0378	0.2934		3,837.2136	3,837.2136	0.1789		3,841.6862
Vendor	0.0118	0.4094	0.0882	1.0100e-003	0.0256	2.3700e-003	0.0280	7.3700e-003	2.2700e-003	9.6400e-003		106.0171	106.0171	9.1900e-003		106.2470
Worker	0.1993	0.1245	1.3047	3.9700e-003	0.4471	2.7100e-003	0.4498	0.1186	2.4900e-003	0.1211		395.2943	395.2943	9.8200e-003		395.5398
Total	**0.4393**	**10.4881**	**2.8464**	**0.0411**	**1.4052**	**0.0446**	**1.4497**	**0.3815**	**0.0426**	**0.4241**		**4,338.5251**	**4,338.5251**	**0.1979**		**4,343.4730**

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	lb/day										lb/day					
Off-Road	0.4024	1.7437	20.4689	0.0327		0.0537	0.0537		0.0537	0.0537	0.0000	3,166.6721	3,166.6721	1.0242		3,192.2763
Total	**0.4024**	**1.7437**	**20.4689**	**0.0327**		**0.0537**	**0.0537**		**0.0537**	**0.0537**	**0.0000**	**3,166.6721**	**3,166.6721**	**1.0242**		**3,192.2763**

3.2 Demolition - 2020

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	lb/day										lb/day					
Hauling	0.2282	9.9542	1.4535	0.0362	0.9324	0.0395	0.9720	0.2556	0.0378	0.2934		3,837.2136	3,837.2136	0.1789		3,841.6862
Vendor	0.0118	0.4094	0.0882	1.0100e-003	0.0256	2.3700e-003	0.0280	7.3700e-003	2.2700e-003	9.6400e-003		106.0171	106.0171	9.1900e-003		106.2470
Worker	0.1993	0.1245	1.3047	3.9700e-003	0.4471	2.7100e-003	0.4498	0.1186	2.4900e-003	0.1211		395.2943	395.2943	9.8200e-003		395.5398
Total	**0.4393**	**10.4881**	**2.8464**	**0.0411**	**1.4052**	**0.0446**	**1.4497**	**0.3815**	**0.0426**	**0.4241**		**4,338.5251**	**4,338.5251**	**0.1979**		**4,343.4730**

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	lb/day										lb/day					
Fugitive Dust					18.5965	0.0000	18.5965	9.9879	0.0000	9.9879			0.0000			0.0000
Off-Road	4.0809	44.0063	18.1988	0.0377		2.1001	2.1001		1.9321	1.9321		3,651.0911	3,651.0911	1.1808		3,680.6120
Total	**4.0809**	**44.0063**	**18.1988**	**0.0377**	**18.5965**	**2.1001**	**20.6966**	**9.9879**	**1.9321**	**11.9201**		**3,651.0911**	**3,651.0911**	**1.1808**		**3,680.6120**

3.3 Site Preparation - 2020

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	lb/day										lb/day					
Hauling	0.0216	0.9554	0.1369	2.9700e-003	0.0700	3.0600e-003	0.0730	0.0192	2.9300e-003	0.0221		315.0231	315.0231	0.0211		315.5500
Vendor	0.0118	0.4094	0.0882	1.0100e-003	0.0256	2.3700e-003	0.0280	7.3700e-003	2.2700e-003	9.6400e-003		106.0171	106.0171	9.1900e-003		106.2470
Worker	0.1993	0.1245	1.3047	3.9700e-003	0.4471	2.7100e-003	0.4498	0.1186	2.4900e-003	0.1211		395.2943	395.2943	9.8200e-003		395.5398
Total	**0.2327**	**1.4894**	**1.5297**	**7.9500e-003**	**0.5427**	**8.1400e-003**	**0.5508**	**0.1451**	**7.6900e-003**	**0.1528**		**816.3346**	**816.3346**	**0.0401**		**817.3368**

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	lb/day										lb/day					
Fugitive Dust					7.2526	0.0000	7.2526	3.8953	0.0000	3.8953			0.0000			0.0000
Off-Road	0.4613	1.9988	18.5742	0.0377		0.0615	0.0615		0.0615	0.0615	0.0000	3,651.0911	3,651.0911	1.1808		3,680.6120
Total	**0.4613**	**1.9988**	**18.5742**	**0.0377**	**7.2526**	**0.0615**	**7.3141**	**3.8953**	**0.0615**	**3.9568**	**0.0000**	**3,651.0911**	**3,651.0911**	**1.1808**		**3,680.6120**

3.3 Site Preparation - 2020

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	lb/day										lb/day					
Hauling	0.0216	0.9554	0.1369	2.9700e-003	0.0700	3.0600e-003	0.0730	0.0192	2.9300e-003	0.0221		315.0231	315.0231	0.0211		315.5500
Vendor	0.0118	0.4094	0.0882	1.0100e-003	0.0256	2.3700e-003	0.0280	7.3700e-003	2.2700e-003	9.6400e-003		106.0171	106.0171	9.1900e-003		106.2470
Worker	0.1993	0.1245	1.3047	3.9700e-003	0.4471	2.7100e-003	0.4498	0.1186	2.4900e-003	0.1211		395.2943	395.2943	9.8200e-003		395.5398
Total	**0.2327**	**1.4894**	**1.5297**	**7.9500e-003**	**0.5427**	**8.1400e-003**	**0.5508**	**0.1451**	**7.6900e-003**	**0.1528**		**816.3346**	**816.3346**	**0.0401**		**817.3368**

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	lb/day										lb/day					
Fugitive Dust					1.0909	0.0000	1.0909	0.1191	0.0000	0.1191			0.0000			0.0000
Off-Road	1.7540	21.3153	10.5269	0.0274		0.7842	0.7842		0.7214	0.7214		2,653.8881	2,653.8881	0.8583		2,675.3462
Total	**1.7540**	**21.3153**	**10.5269**	**0.0274**	**1.0909**	**0.7842**	**1.8751**	**0.1191**	**0.7214**	**0.8406**		**2,653.8881**	**2,653.8881**	**0.8583**		**2,675.3462**

3.4 Grading - 2020

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	lb/day										lb/day					
Hauling	0.2798	12.2283	1.7797	0.0433	1.1015	0.0469	1.1484	0.3019	0.0449	0.3468		4,593.9808	4,593.9808	0.2286		4,599.6949
Vendor	0.0118	0.4094	0.0882	1.0100e-003	0.0256	2.3700e-003	0.0280	7.3700e-003	2.2700e-003	9.6400e-003		106.0171	106.0171	9.1900e-003		106.2470
Worker	0.1495	0.0934	0.9785	2.9800e-003	0.3353	2.0300e-003	0.3374	0.0889	1.8700e-003	0.0908		296.4707	296.4707	7.3600e-003		296.6548
Total	**0.4410**	**12.7311**	**2.8463**	**0.0473**	**1.4625**	**0.0513**	**1.5138**	**0.3982**	**0.0490**	**0.4472**		**4,996.4687**	**4,996.4687**	**0.2451**		**5,002.5967**

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	lb/day										lb/day					
Fugitive Dust					0.4255	0.0000	0.4255	0.0465	0.0000	0.0465			0.0000			0.0000
Off-Road	0.3364	1.4576	14.7527	0.0274		0.0449	0.0449		0.0449	0.0449	0.0000	2,653.8881	2,653.8881	0.8583		2,675.3462
Total	**0.3364**	**1.4576**	**14.7527**	**0.0274**	**0.4255**	**0.0449**	**0.4703**	**0.0465**	**0.0449**	**0.0913**	**0.0000**	**2,653.8881**	**2,653.8881**	**0.8583**		**2,675.3462**

3.4 Grading - 2020

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	lb/day										lb/day					
Hauling	0.2798	12.2283	1.7797	0.0433	1.1015	0.0469	1.1484	0.3019	0.0449	0.3468		4,593.9808	4,593.9808	0.2286		4,599.6949
Vendor	0.0118	0.4094	0.0882	1.0100e-003	0.0256	2.3700e-003	0.0280	7.3700e-003	2.2700e-003	9.6400e-003		106.0171	106.0171	9.1900e-003		106.2470
Worker	0.1495	0.0934	0.9785	2.9800e-003	0.3353	2.0300e-003	0.3374	0.0889	1.8700e-003	0.0908		296.4707	296.4707	7.3600e-003		296.6548
Total	**0.4410**	**12.7311**	**2.8463**	**0.0473**	**1.4625**	**0.0513**	**1.5138**	**0.3982**	**0.0490**	**0.4472**		**4,996.4687**	**4,996.4687**	**0.2451**		**5,002.5967**

3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	2.1443	19.4875	16.5366	0.0343		0.8803	0.8803		0.8395	0.8395		3,228.4633	3,228.4633	0.8049		3,248.5848
Total	**2.1443**	**19.4875**	**16.5366**	**0.0343**		**0.8803**	**0.8803**		**0.8395**	**0.8395**		**3,228.4633**	**3,228.4633**	**0.8049**		**3,248.5848**

3.5 Building Construction - 2020

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	lb/day										lb/day					
Hauling	4.3300e-003	0.1911	0.0274	5.9000e-004	0.0510	6.1000e-004	0.0516	0.0129	5.9000e-004	0.0135		63.0046	63.0046	4.2200e-003		63.1100
Vendor	0.1176	4.0941	0.8816	0.0101	0.2561	0.0237	0.2798	0.0738	0.0227	0.0964		1,060.1711	1,060.1711	0.0919		1,062.4696
Worker	1.4951	0.9340	9.7852	0.0298	3.3533	0.0203	3.3736	0.8893	0.0187	0.9080		2,964.7074	2,964.7074	0.0736		2,966.5483
Total	**1.6170**	**5.2192**	**10.6942**	**0.0404**	**3.6604**	**0.0446**	**3.7050**	**0.9760**	**0.0420**	**1.0179**		**4,087.8831**	**4,087.8831**	**0.1698**		**4,092.1279**

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	lb/day										lb/day					
Off-Road	0.4534	4.3576	19.5782	0.0343		0.0519	0.0519		0.0519	0.0519	0.0000	3,228.4633	3,228.4633	0.8049		3,248.5848
Total	**0.4534**	**4.3576**	**19.5782**	**0.0343**		**0.0519**	**0.0519**		**0.0519**	**0.0519**	**0.0000**	**3,228.4633**	**3,228.4633**	**0.8049**		**3,248.5848**

3.5 Building Construction - 2020

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	lb/day										lb/day					
Hauling	4.3300e-003	0.1911	0.0274	5.9000e-004	0.0510	6.1000e-004	0.0516	0.0129	5.9000e-004	0.0135		63.0046	63.0046	4.2200e-003		63.1100
Vendor	0.1176	4.0941	0.8816	0.0101	0.2561	0.0237	0.2798	0.0738	0.0227	0.0964		1,060.1711	1,060.1711	0.0919		1,062.4696
Worker	1.4951	0.9340	9.7852	0.0298	3.3533	0.0203	3.3736	0.8893	0.0187	0.9080		2,964.7074	2,964.7074	0.0736		2,966.5483
Total	**1.6170**	**5.2192**	**10.6942**	**0.0404**	**3.6604**	**0.0446**	**3.7050**	**0.9760**	**0.0420**	**1.0179**		**4,087.8831**	**4,087.8831**	**0.1698**		**4,092.1279**

3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.9349	17.6908	16.2626	0.0343		0.7622	0.7622		0.7265	0.7265		3,230.8554	3,230.8554	0.7950		3,250.7315
Total	**1.9349**	**17.6908**	**16.2626**	**0.0343**		**0.7622**	**0.7622**		**0.7265**	**0.7265**		**3,230.8554**	**3,230.8554**	**0.7950**		**3,250.7315**

3.5 Building Construction - 2021

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	lb/day										lb/day					
Hauling	4.1000e-003	0.1751	0.0267	5.9000e-004	0.0196	5.4000e-004	0.0202	5.2200e-003	5.1000e-004	5.7300e-003		62.3402	62.3402	4.0600e-003		62.4418
Vendor	0.0992	3.6697	0.7812	9.9800e-003	0.2561	7.2500e-003	0.2634	0.0738	6.9400e-003	0.0807		1,051.8929	1,051.8929	0.0871		1,054.0711
Worker	1.3958	0.8380	8.9529	0.0288	3.3533	0.0198	3.3731	0.8893	0.0182	0.9075		2,865.5807	2,865.5807	0.0662		2,867.2361
Total	**1.4991**	**4.6827**	**9.7608**	**0.0393**	**3.6291**	**0.0276**	**3.6566**	**0.9683**	**0.0256**	**0.9939**		**3,979.8137**	**3,979.8137**	**0.1574**		**3,983.7489**

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	lb/day										lb/day					
Off-Road	0.4534	4.3576	19.5782	0.0343		0.0519	0.0519		0.0519	0.0519	0.0000	3,230.8554	3,230.8554	0.7950		3,250.7315
Total	**0.4534**	**4.3576**	**19.5782**	**0.0343**		**0.0519**	**0.0519**		**0.0519**	**0.0519**	**0.0000**	**3,230.8554**	**3,230.8554**	**0.7950**		**3,250.7315**

3.5 Building Construction - 2021

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	lb/day										lb/day					
Hauling	4.1000e-003	0.1751	0.0267	5.9000e-004	0.0196	5.4000e-004	0.0202	5.2200e-003	5.1000e-004	5.7300e-003		62.3402	62.3402	4.0600e-003		62.4418
Vendor	0.0992	3.6697	0.7812	9.9800e-003	0.2561	7.2500e-003	0.2634	0.0738	6.9400e-003	0.0807		1,051.8929	1,051.8929	0.0871		1,054.0711
Worker	1.3958	0.8380	8.9529	0.0288	3.3533	0.0198	3.3731	0.8893	0.0182	0.9075		2,865.5807	2,865.5807	0.0662		2,867.2361
Total	**1.4991**	**4.6827**	**9.7608**	**0.0393**	**3.6291**	**0.0276**	**3.6566**	**0.9683**	**0.0256**	**0.9939**		**3,979.8137**	**3,979.8137**	**0.1574**		**3,983.7489**

3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.7520	15.6021	16.0619	0.0344		0.6508	0.6508		0.6207	0.6207		3,232.6847	3,232.6847	0.7891		3,252.4113
Total	**1.7520**	**15.6021**	**16.0619**	**0.0344**		**0.6508**	**0.6508**		**0.6207**	**0.6207**		**3,232.6847**	**3,232.6847**	**0.7891**		**3,252.4113**

3.5 Building Construction - 2022

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	lb/day										lb/day					
Hauling	3.8500e-003	0.1591	0.0258	5.8000e-004	0.0880	4.5000e-004	0.0885	0.0220	4.3000e-004	0.0224		61.6166	61.6166	3.9000e-003		61.7141
Vendor	0.0926	3.4573	0.7293	9.8900e-003	0.2561	6.1100e-003	0.2622	0.0737	5.8400e-003	0.0796		1,042.7086	1,042.7086	0.0826		1,044.7736
Worker	1.3094	0.7538	8.2453	0.0277	3.3533	0.0192	3.3725	0.8893	0.0177	0.9070		2,761.0167	2,761.0167	0.0596		2,762.5053
Total	**1.4059**	**4.3703**	**9.0004**	**0.0382**	**3.6974**	**0.0258**	**3.7232**	**0.9851**	**0.0240**	**1.0090**		**3,865.3418**	**3,865.3418**	**0.1461**		**3,868.9929**

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	lb/day										lb/day					
Off-Road	0.4534	4.3576	19.5782	0.0344		0.0519	0.0519		0.0519	0.0519	0.0000	3,232.6847	3,232.6847	0.7891		3,252.4113
Total	**0.4534**	**4.3576**	**19.5782**	**0.0344**		**0.0519**	**0.0519**		**0.0519**	**0.0519**	**0.0000**	**3,232.6847**	**3,232.6847**	**0.7891**		**3,252.4113**

3.5 Building Construction - 2022

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	lb/day										lb/day					
Hauling	3.8500e-003	0.1591	0.0258	5.8000e-004	0.0880	4.5000e-004	0.0885	0.0220	4.3000e-004	0.0224		61.6166	61.6166	3.9000e-003		61.7141
Vendor	0.0926	3.4573	0.7293	9.8900e-003	0.2561	6.1100e-003	0.2622	0.0737	5.8400e-003	0.0796		1,042.7086	1,042.7086	0.0826		1,044.7736
Worker	1.3094	0.7538	8.2453	0.0277	3.3533	0.0192	3.3725	0.8893	0.0177	0.9070		2,761.0167	2,761.0167	0.0596		2,762.5053
Total	**1.4059**	**4.3703**	**9.0004**	**0.0382**	**3.6974**	**0.0258**	**3.7232**	**0.9851**	**0.0240**	**1.0090**		**3,865.3418**	**3,865.3418**	**0.1461**		**3,868.9929**

3.6 Trenching - 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	lb/day										lb/day					
Off-Road	0.6981	6.8542	9.5914	0.0140		0.3656	0.3656		0.3364	0.3364		1,356.5970	1,356.5970	0.4388		1,367.5658
Total	**0.6981**	**6.8542**	**9.5914**	**0.0140**		**0.3656**	**0.3656**		**0.3364**	**0.3364**		**1,356.5970**	**1,356.5970**	**0.4388**		**1,367.5658**

3.6 Trenching - 2022

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	lb/day										lb/day					
Hauling	3.8500e-003	0.1591	0.0258	5.8000e-004	0.0140	4.5000e-004	0.0144	3.8400e-003	4.3000e-004	4.2600e-003		61.6166	61.6166	3.9000e-003		61.7141
Vendor	9.2600e-003	0.3457	0.0729	9.9000e-004	0.0256	6.1000e-004	0.0262	7.3700e-003	5.8000e-004	7.9600e-003		104.2709	104.2709	8.2600e-003		104.4774
Worker	0.2619	0.1508	1.6491	5.5400e-003	0.6707	3.8500e-003	0.6745	0.1779	3.5400e-003	0.1814		552.2033	552.2033	0.0119		552.5011
Total	**0.2750**	**0.6556**	**1.7478**	**7.1100e-003**	**0.7103**	**4.9100e-003**	**0.7152**	**0.1891**	**4.5500e-003**	**0.1936**		**718.0908**	**718.0908**	**0.0241**		**718.6925**

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	lb/day										lb/day					
Off-Road	0.1717	0.7439	10.5860	0.0140		0.0229	0.0229		0.0229	0.0229	0.0000	1,356.5970	1,356.5970	0.4388		1,367.5658
Total	**0.1717**	**0.7439**	**10.5860**	**0.0140**		**0.0229**	**0.0229**		**0.0229**	**0.0229**	**0.0000**	**1,356.5970**	**1,356.5970**	**0.4388**		**1,367.5658**

3.6 Trenching - 2022

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	lb/day										lb/day					
Hauling	3.8500e-003	0.1591	0.0258	5.8000e-004	0.0140	4.5000e-004	0.0144	3.8400e-003	4.3000e-004	4.2600e-003		61.6166	61.6166	3.9000e-003		61.7141
Vendor	9.2600e-003	0.3457	0.0729	9.9000e-004	0.0256	6.1000e-004	0.0262	7.3700e-003	5.8000e-004	7.9600e-003		104.2709	104.2709	8.2600e-003		104.4774
Worker	0.2619	0.1508	1.6491	5.5400e-003	0.6707	3.8500e-003	0.6745	0.1779	3.5400e-003	0.1814		552.2033	552.2033	0.0119		552.5011
Total	**0.2750**	**0.6556**	**1.7478**	**7.1100e-003**	**0.7103**	**4.9100e-003**	**0.7152**	**0.1891**	**4.5500e-003**	**0.1936**		**718.0908**	**718.0908**	**0.0241**		**718.6925**

3.7 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	lb/day										lb/day					
Off-Road	0.5514	5.5624	7.2902	0.0114		0.2840	0.2840		0.2612	0.2612		1,103.8302	1,103.8302	0.3570		1,112.7552
Paving	0.2581					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8095**	**5.5624**	**7.2902**	**0.0114**		**0.2840**	**0.2840**		**0.2612**	**0.2612**		**1,103.8302**	**1,103.8302**	**0.3570**		**1,112.7552**

3.7 Paving - 2022

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	lb/day										lb/day					
Hauling	0.0578	2.3868	0.3873	8.7000e-003	0.2099	6.6800e-003	0.2166	0.0575	6.4000e-003	0.0639		924.2493	924.2493	0.0585		925.7110
Vendor	4.6300e-003	0.1729	0.0365	4.9000e-004	0.0128	3.1000e-004	0.0131	3.6900e-003	2.9000e-004	3.9800e-003		52.1354	52.1354	4.1300e-003		52.2387
Worker	0.1048	0.0603	0.6596	2.2200e-003	0.2683	1.5400e-003	0.2698	0.0711	1.4200e-003	0.0726		220.8813	220.8813	4.7600e-003		221.0004
Total	**0.1672**	**2.6199**	**1.0834**	**0.0114**	**0.4910**	**8.5300e-003**	**0.4995**	**0.1324**	**8.1100e-003**	**0.1405**		**1,197.2660**	**1,197.2660**	**0.0674**		**1,198.9501**

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	lb/day										lb/day					
Off-Road	0.1402	0.6077	8.6478	0.0114		0.0187	0.0187		0.0187	0.0187	0.0000	1,103.8302	1,103.8302	0.3570		1,112.7552
Paving	0.2581					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3983**	**0.6077**	**8.6478**	**0.0114**		**0.0187**	**0.0187**		**0.0187**	**0.0187**	**0.0000**	**1,103.8302**	**1,103.8302**	**0.3570**		**1,112.7552**

3.7 Paving - 2022

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	lb/day										lb/day					
Hauling	0.0578	2.3868	0.3873	8.7000e-003	0.2099	6.6800e-003	0.2166	0.0575	6.4000e-003	0.0639		924.2493	924.2493	0.0585		925.7110
Vendor	4.6300e-003	0.1729	0.0365	4.9000e-004	0.0128	3.1000e-004	0.0131	3.6900e-003	2.9000e-004	3.9800e-003		52.1354	52.1354	4.1300e-003		52.2387
Worker	0.1048	0.0603	0.6596	2.2200e-003	0.2683	1.5400e-003	0.2698	0.0711	1.4200e-003	0.0726		220.8813	220.8813	4.7600e-003		221.0004
Total	**0.1672**	**2.6199**	**1.0834**	**0.0114**	**0.4910**	**8.5300e-003**	**0.4995**	**0.1324**	**8.1100e-003**	**0.1405**		**1,197.2660**	**1,197.2660**	**0.0674**		**1,198.9501**

3.8 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	36.6434					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4091	2.8170	3.6272	5.9400e-003		0.1634	0.1634		0.1634	0.1634		562.8961	562.8961	0.0367		563.8123
Total	**37.0525**	**2.8170**	**3.6272**	**5.9400e-003**		**0.1634**	**0.1634**		**0.1634**	**0.1634**		**562.8961**	**562.8961**	**0.0367**		**563.8123**

3.8 Architectural Coating - 2022

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	lb/day										lb/day					
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
Vendor	4.6300e-003	0.1729	0.0365	4.9000e-004	0.0128	3.1000e-004	0.0131	3.6900e-003	2.9000e-004	3.9800e-003		52.1354	52.1354	4.1300e-003		52.2387
Worker	0.1309	0.0754	0.8245	2.7700e-003	0.3353	1.9200e-003	0.3373	0.0889	1.7700e-003	0.0907		276.1017	276.1017	5.9500e-003		276.2505
Total	**0.1356**	**0.2483**	**0.8610**	**3.2600e-003**	**0.3481**	**2.2300e-003**	**0.3504**	**0.0926**	**2.0600e-003**	**0.0947**		**328.2371**	**328.2371**	**0.0101**		**328.4892**

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	lb/day										lb/day					
Archit. Coating	36.6434					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0367		563.8123
Total	**36.7028**	**0.2575**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0367**		**563.8123**

3.8 Architectural Coating - 2022

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	lb/day										lb/day					
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
Vendor	4.6300e-003	0.1729	0.0365	4.9000e-004	0.0128	3.1000e-004	0.0131	3.6900e-003	2.9000e-004	3.9800e-003		52.1354	52.1354	4.1300e-003		52.2387
Worker	0.1309	0.0754	0.8245	2.7700e-003	0.3353	1.9200e-003	0.3373	0.0889	1.7700e-003	0.0907		276.1017	276.1017	5.9500e-003		276.2505
Total	**0.1356**	**0.2483**	**0.8610**	**3.2600e-003**	**0.3481**	**2.2300e-003**	**0.3504**	**0.0926**	**2.0600e-003**	**0.0947**		**328.2371**	**328.2371**	**0.0101**		**328.4892**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Limit Parking Supply

Implement Trip Reduction Program

Market Commute Trip Reduction Option

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6714	4.7537	4.4915	0.0175	1.0504	0.0102	1.0606	0.2810	9.5300e-003	0.2905		1,799.5182	1,799.5182	0.1557		1,803.4103
Unmitigated	0.6899	4.8845	4.9994	0.0203	1.3130	0.0119	1.3248	0.3512	0.0111	0.3623		2,083.7797	2,083.7797	0.1631		2,087.8572

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Hospital	653.00	502.84	440.11	566,817	453,454
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	653.00	502.84	440.11	566,817	453,454

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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Hospital	0.00	2.59	0.00	0.00	100.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Hospital	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Other Asphalt Surfaces	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898

5.0 Energy Detail

Historical Energy Use: N

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	lb/day										lb/day					
NaturalGas Mitigated	0.8003	7.2751	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.1280	8,730.1280	0.1673	0.1601	8,782.0068
NaturalGas Unmitigated	0.8003	7.2751	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.1280	8,730.1280	0.1673	0.1601	8,782.0068

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	lb/day										lb/day					
General Light Industry	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
Hospital	74206.1	0.8003	7.2751	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.1280	8,730.1280	0.1673	0.1601	8,782.0068
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
Total		**0.8003**	**7.2751**	**6.1111**	**0.0437**		**0.5529**	**0.5529**		**0.5529**	**0.5529**		**8,730.1280**	**8,730.1280**	**0.1673**	**0.1601**	**8,782.0068**

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	lb/day										lb/day					
General Light Industry	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
Hospital	74.2061	0.8003	7.2751	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.1280	8,730.1280	0.1673	0.1601	8,782.0068
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
Total		**0.8003**	**7.2751**	**6.1111**	**0.0437**		**0.5529**	**0.5529**		**0.5529**	**0.5529**		**8,730.1280**	**8,730.1280**	**0.1673**	**0.1601**	**8,782.0068**

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	lb/day										lb/day					
Mitigated	2.5040	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473
Unmitigated	2.5040	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473

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	lb/day										lb/day					
Architectural Coating	0.1551					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9200e-003	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473
Total	**2.5041**	**1.9000e-004**	**0.0207**	**0.0000**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**		**0.0444**	**0.0444**	**1.2000e-004**		**0.0473**

6.2 Area by SubCategory

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	lb/day										lb/day					
Architectural Coating	0.1551					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9200e-003	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473
Total	**2.5041**	**1.9000e-004**	**0.0207**	**0.0000**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**		**0.0444**	**0.0444**	**1.2000e-004**		**0.0473**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	50	2667	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (750 - 9999 HP)	2.1884	1.0731	5.5799	0.0105		0.0429	0.0429		0.0429	0.0429		1,119.4921	1,119.4921	0.1570		1,123.4159
Total	**2.1884**	**1.0731**	**5.5799**	**0.0105**		**0.0429**	**0.0429**		**0.0429**	**0.0429**		**1,119.4921**	**1,119.4921**	**0.1570**		**1,123.4159**

11.0 Vegetation

Kaiser Moreno Valley - Phase II

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	380.00	1000sqft	8.72	380,000.00	0
Medical Office Building	65.00	1000sqft	1.49	65,000.00	0
General Light Industry	8.00	1000sqft	0.18	8,000.00	0
Enclosed Parking with Elevator	400.00	Space	3.60	160,000.00	0
Enclosed Parking with Elevator	1,400.00	Space	12.60	560,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	353.87	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - In accordance with SB 100 RPS goal of 60% by 2030.

Land Use - Based on project description.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - Based on applicant provided information. Grading is balanced onsite.

On-road Fugitive Dust - CalEEMod defaults.

Grading - CalEEMod defaults.

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Based on trip gen for Phase II.

Road Dust - CalEEMod defaults.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - Based on applicant provided information.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - water 3x daily and vehicle speed limit of 15 mph on unpaved roads.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation - All LED lighting. Assumes compliance with 2019 Title 24.

Water Mitigation -

Waste Mitigation - In accordance with AB 939.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	LightingElect	4.52	0.00
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24E	5.56	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	NT24NG	6.03	0.00
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	2.20	0.00
tblEnergyUse	T24E	8.35	11.60
tblEnergyUse	T24E	3.07	0.00
tblEnergyUse	T24NG	15.36	0.00
tblEnergyUse	T24NG	69.49	178.68
tblEnergyUse	T24NG	3.47	0.00
tblGrading	AcresOfGrading	70.00	112.50
tblGrading	AcresOfGrading	25.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	0.50
tblTripsAndVMT	HaulingTripNumber	0.00	300.00
tblTripsAndVMT	HaulingTripNumber	0.00	200.00

tblTripsAndVMT	HaulingTripNumber	0.00	1,300.00
tblTripsAndVMT	HaulingTripNumber	0.00	320.00
tblTripsAndVMT	HaulingTripNumber	0.00	96.00
tblTripsAndVMT	HaulingTripNumber	0.00	400.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	192.00	44.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	8.00	40.00
tblTripsAndVMT	WorkerTripNumber	8.00	40.00
tblTripsAndVMT	WorkerTripNumber	15.00	28.00
tblTripsAndVMT	WorkerTripNumber	448.00	200.00
tblTripsAndVMT	WorkerTripNumber	10.00	60.00
tblTripsAndVMT	WorkerTripNumber	8.00	16.00
tblTripsAndVMT	WorkerTripNumber	90.00	28.00
tblVehicleTrips	CC_TL	8.40	2.55
tblVehicleTrips	CC_TL	8.40	3.10
tblVehicleTrips	CC_TTP	16.10	100.00
tblVehicleTrips	CC_TTP	51.40	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00

tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	64.90	0.00
tblVehicleTrips	CW_TTP	29.60	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	DV_TP	30.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	10.00	0.00
tblVehicleTrips	PR_TP	73.00	100.00
tblVehicleTrips	PR_TP	60.00	100.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	10.18	8.26
tblVehicleTrips	ST_TR	8.96	8.63
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	8.91	7.23
tblVehicleTrips	SU_TR	1.55	1.49
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	13.22	10.72
tblVehicleTrips	WD_TR	36.13	34.80

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					
2026	0.2679	2.1855	2.6389	6.4000e-003	0.2468	0.0697	0.3165	0.0566	0.0658	0.1224	0.0000	560.5573	560.5573	0.0955	0.0000	562.9450
2027	0.4150	3.0564	4.0885	9.2900e-003	0.3256	0.0971	0.4226	0.0873	0.0929	0.1802	0.0000	802.8629	802.8629	0.1105	0.0000	805.6263
2028	0.2386	1.7872	2.5956	5.5900e-003	0.1999	0.0611	0.2611	0.0534	0.0579	0.1113	0.0000	486.8918	486.8918	0.0790	0.0000	488.8657
2029	1.1748	0.1920	0.2946	6.8000e-004	0.0182	7.6900e-003	0.0259	4.8700e-003	7.3700e-003	0.0122	0.0000	60.6455	60.6455	7.9600e-003	0.0000	60.8444
Maximum	**1.1748**	**3.0564**	**4.0885**	**9.2900e-003**	**0.3256**	**0.0971**	**0.4226**	**0.0873**	**0.0929**	**0.1802**	**0.0000**	**802.8629**	**802.8629**	**0.1105**	**0.0000**	**805.6263**

2.1 Overall Construction

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					
2026	0.2679	2.1855	2.6389	6.4000e-003	0.2104	0.0697	0.2801	0.0527	0.0658	0.1185	0.0000	560.5569	560.5569	0.0955	0.0000	562.9445
2027	0.4150	3.0564	4.0885	9.2900e-003	0.3256	0.0971	0.4226	0.0873	0.0929	0.1802	0.0000	802.8624	802.8624	0.1105	0.0000	805.6257
2028	0.2386	1.7872	2.5956	5.5900e-003	0.1999	0.0611	0.2611	0.0534	0.0579	0.1113	0.0000	486.8915	486.8915	0.0790	0.0000	488.8653
2029	1.1748	0.1920	0.2946	6.8000e-004	0.0182	7.6900e-003	0.0259	4.8700e-003	7.3700e-003	0.0122	0.0000	60.6454	60.6454	7.9600e-003	0.0000	60.8443
Maximum	**1.1748**	**3.0564**	**4.0885**	**9.2900e-003**	**0.3256**	**0.0971**	**0.4226**	**0.0873**	**0.0929**	**0.1802**	**0.0000**	**802.8624**	**802.8624**	**0.1105**	**0.0000**	**805.6257**

	ROG	NOx	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**	**4.60**	**0.00**	**3.55**	**1.94**	**0.00**	**0.92**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-1-2026**	**3-31-2026**	0.2772	0.2772
2	**4-1-2026**	**6-30-2026**	0.4791	0.4791
3	**7-1-2026**	**9-30-2026**	0.8178	0.8178
4	**10-1-2026**	**12-31-2026**	0.8774	0.8774
5	**1-1-2027**	**3-31-2027**	0.8553	0.8553
6	**4-1-2027**	**6-30-2027**	0.8657	0.8657
7	**7-1-2027**	**9-30-2027**	0.8752	0.8752
8	**10-1-2027**	**12-31-2027**	0.8743	0.8743

9	**1-1-2028**	**3-31-2028**	0.8620	0.8620
10	**4-1-2028**	**6-30-2028**	0.7484	0.7484
11	**7-1-2028**	**9-30-2028**	0.2140	0.2140
12	**10-1-2028**	**12-31-2028**	0.2134	0.2134
13	**1-1-2029**	**3-31-2029**	0.5983	0.5983
14	**4-1-2029**	**6-30-2029**	0.7657	0.7657
		Highest	0.8774	0.8774

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	1.8011	2.6000e-004	0.0286	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.0559	0.0559	1.4000e-004	0.0000	0.0595
Energy	0.3661	3.3284	2.7959	0.0200		0.2530	0.2530		0.2530	0.2530	0.0000	4,330.8033	4,330.8033	0.1274	0.0784	4,357.3589
Mobile	0.7488	6.8542	5.3996	0.0285	2.0629	0.0138	2.0767	0.5523	0.0128	0.5651	0.0000	2,667.1977	2,667.1977	0.1675	0.0000	2,671.3852
Waste						0.0000	0.0000		0.0000	0.0000	977.5882	0.0000	977.5882	57.7738	0.0000	2,421.9335
Water						0.0000	0.0000		0.0000	0.0000	18.3020	139.5389	157.8409	1.8912	0.0468	219.0536
Total	**2.9160**	**10.1829**	**8.2241**	**0.0484**	**2.0629**	**0.2668**	**2.3297**	**0.5523**	**0.2659**	**0.8181**	**995.8903**	**7,137.5957**	**8,133.4859**	**59.9601**	**0.1252**	**9,669.7908**

2.2 Overall Operational

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	1.8011	2.6000e-004	0.0286	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.0559	0.0559	1.4000e-004	0.0000	0.0595
Energy	0.2563	2.3299	1.9571	0.0140		0.1771	0.1771		0.1771	0.1771	0.0000	3,031.5623	3,031.5623	0.0892	0.0549	3,050.1513
Mobile	0.7261	6.7233	4.7935	0.0247	1.6503	0.0119	1.6622	0.4418	0.0110	0.4529	0.0000	2,313.3589	2,313.3589	0.1591	0.0000	2,317.3361
Waste						0.0000	0.0000		0.0000	0.0000	244.3971	0.0000	244.3971	14.4435	0.0000	605.4834
Water						0.0000	0.0000		0.0000	0.0000	14.6416	99.8239	114.4655	1.5120	0.0372	163.3518
Total	**2.7835**	**9.0535**	**6.7792**	**0.0386**	**1.6503**	**0.1891**	**1.8394**	**0.4418**	**0.1882**	**0.6300**	**259.0387**	**5,444.8009**	**5,703.8396**	**16.2039**	**0.0921**	**6,136.3820**

	ROG	NOx	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	**4.54**	**11.09**	**17.57**	**20.23**	**20.00**	**29.15**	**21.05**	**20.00**	**29.21**	**22.99**	**73.99**	**23.72**	**29.87**	**72.98**	**26.42**	**36.54**

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	1/1/2026	1/28/2026	5	20	
2	Site Preparation	Site Preparation	1/29/2026	4/8/2026	5	50	
3	Grading	Grading	4/9/2026	7/15/2026	5	70	
4	Building Construction	Building Construction	7/16/2026	6/14/2028	5	500	
5	Trenching	Trenching	6/15/2028	12/27/2028	5	140	
6	Paving	Paving	12/28/2028	2/21/2029	5	40	
7	Architectural Coating	Architectural Coating	2/22/2029	5/30/2029	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 16.2

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 679,500; Non-Residential Outdoor: 226,500; Striped Parking Area: 43,200 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crawler Tractors	1	8.00	212	0.43
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Other Construction Equipment	1	8.00	172	0.42
Building Construction	Rough Terrain Forklifts	2	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	6	8.00	46	0.45
Trenching	Excavators	1	8.00	158	0.38
Trenching	Rollers	1	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Architectural Coating	Air Compressors	2	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	3	40.00	4.00	300.00	14.70	6.90	40.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	40.00	4.00	200.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	28.00	4.00	1,300.00	14.70	6.90	0.50	LD_Mix	HDT_Mix	HHDT
Building Construction	13	200.00	44.00	320.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	60.00	4.00	96.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	16.00	2.00	400.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	28.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 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	7.3400e-003	0.0715	0.0581	1.7000e-004		2.7100e-003	2.7100e-003		2.4900e-003	2.4900e-003	0.0000	15.1132	15.1132	4.8900e-003	0.0000	15.2354
Total	**7.3400e-003**	**0.0715**	**0.0581**	**1.7000e-004**		**2.7100e-003**	**2.7100e-003**		**2.4900e-003**	**2.4900e-003**	**0.0000**	**15.1132**	**15.1132**	**4.8900e-003**	**0.0000**	**15.2354**

3.2 Demolition - 2026

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	7.8000e-004	0.0237	6.8200e-003	1.9000e-004	5.1700e-003	7.0000e-005	5.2300e-003	1.4200e-003	7.0000e-005	1.4800e-003	0.0000	18.4464	18.4464	6.8000e-004	0.0000	18.4635
Vendor	6.0000e-005	2.5600e-003	5.3000e-004	1.0000e-005	2.5000e-004	0.0000	2.6000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.9268	0.9268	5.0000e-005	0.0000	0.9281
Worker	1.2800e-003	7.1000e-004	8.6500e-003	3.0000e-005	4.4000e-003	2.0000e-005	4.4200e-003	1.1700e-003	2.0000e-005	1.1900e-003	0.0000	2.9396	2.9396	5.0000e-005	0.0000	2.9409
Total	**2.1200e-003**	**0.0270**	**0.0160**	**2.3000e-004**	**9.8200e-003**	**9.0000e-005**	**9.9100e-003**	**2.6600e-003**	**9.0000e-005**	**2.7500e-003**	**0.0000**	**22.3128**	**22.3128**	**7.8000e-004**	**0.0000**	**22.3324**

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	7.3400e-003	0.0715	0.0581	1.7000e-004		2.7100e-003	2.7100e-003		2.4900e-003	2.4900e-003	0.0000	15.1132	15.1132	4.8900e-003	0.0000	15.2354
Total	**7.3400e-003**	**0.0715**	**0.0581**	**1.7000e-004**		**2.7100e-003**	**2.7100e-003**		**2.4900e-003**	**2.4900e-003**	**0.0000**	**15.1132**	**15.1132**	**4.8900e-003**	**0.0000**	**15.2354**

3.2 Demolition - 2026

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	7.8000e-004	0.0237	6.8200e-003	1.9000e-004	5.1700e-003	7.0000e-005	5.2300e-003	1.4200e-003	7.0000e-005	1.4800e-003	0.0000	18.4464	18.4464	6.8000e-004	0.0000	18.4635
Vendor	6.0000e-005	2.5600e-003	5.3000e-004	1.0000e-005	2.5000e-004	0.0000	2.6000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.9268	0.9268	5.0000e-005	0.0000	0.9281
Worker	1.2800e-003	7.1000e-004	8.6500e-003	3.0000e-005	4.4000e-003	2.0000e-005	4.4200e-003	1.1700e-003	2.0000e-005	1.1900e-003	0.0000	2.9396	2.9396	5.0000e-005	0.0000	2.9409
Total	**2.1200e-003**	**0.0270**	**0.0160**	**2.3000e-004**	**9.8200e-003**	**9.0000e-005**	**9.9100e-003**	**2.6600e-003**	**9.0000e-005**	**2.7500e-003**	**0.0000**	**22.3128**	**22.3128**	**7.8000e-004**	**0.0000**	**22.3324**

3.3 Site Preparation - 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					
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	0.0144	0.1532	0.1513	3.2000e-004		5.4900e-003	5.4900e-003		5.0500e-003	5.0500e-003	0.0000	28.2214	28.2214	9.1300e-003	0.0000	28.4496
Total	**0.0144**	**0.1532**	**0.1513**	**3.2000e-004**	**0.0000**	**5.4900e-003**	**5.4900e-003**	**0.0000**	**5.0500e-003**	**5.0500e-003**	**0.0000**	**28.2214**	**28.2214**	**9.1300e-003**	**0.0000**	**28.4496**

3.3 Site Preparation - 2026

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	3.2000e-004	0.0120	2.6600e-003	7.0000e-005	1.7200e-003	2.0000e-005	1.7500e-003	4.7000e-004	2.0000e-005	5.0000e-004	0.0000	6.7534	6.7534	3.2000e-004	0.0000	6.7615
Vendor	1.6000e-004	6.3900e-003	1.3200e-003	2.0000e-005	6.3000e-004	1.0000e-005	6.4000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	2.3170	2.3170	1.3000e-004	0.0000	2.3201
Worker	3.2000e-003	1.7700e-003	0.0216	8.0000e-005	0.0110	6.0000e-005	0.0111	2.9200e-003	5.0000e-005	2.9700e-003	0.0000	7.3491	7.3491	1.3000e-004	0.0000	7.3522
Total	**3.6800e-003**	**0.0201**	**0.0256**	**1.7000e-004**	**0.0133**	**9.0000e-005**	**0.0134**	**3.5700e-003**	**8.0000e-005**	**3.6600e-003**	**0.0000**	**16.4195**	**16.4195**	**5.8000e-004**	**0.0000**	**16.4338**

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	0.0144	0.1532	0.1513	3.2000e-004		5.4900e-003	5.4900e-003		5.0500e-003	5.0500e-003	0.0000	28.2214	28.2214	9.1300e-003	0.0000	28.4496
Total	**0.0144**	**0.1532**	**0.1513**	**3.2000e-004**	**0.0000**	**5.4900e-003**	**5.4900e-003**	**0.0000**	**5.0500e-003**	**5.0500e-003**	**0.0000**	**28.2214**	**28.2214**	**9.1300e-003**	**0.0000**	**28.4496**

3.3 Site Preparation - 2026

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	3.2000e-004	0.0120	2.6600e-003	7.0000e-005	1.7200e-003	2.0000e-005	1.7500e-003	4.7000e-004	2.0000e-005	5.0000e-004	0.0000	6.7534	6.7534	3.2000e-004	0.0000	6.7615
Vendor	1.6000e-004	6.3900e-003	1.3200e-003	2.0000e-005	6.3000e-004	1.0000e-005	6.4000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	2.3170	2.3170	1.3000e-004	0.0000	2.3201
Worker	3.2000e-003	1.7700e-003	0.0216	8.0000e-005	0.0110	6.0000e-005	0.0111	2.9200e-003	5.0000e-005	2.9700e-003	0.0000	7.3491	7.3491	1.3000e-004	0.0000	7.3522
Total	**3.6800e-003**	**0.0201**	**0.0256**	**1.7000e-004**	**0.0133**	**9.0000e-005**	**0.0134**	**3.5700e-003**	**8.0000e-005**	**3.6600e-003**	**0.0000**	**16.4195**	**16.4195**	**5.8000e-004**	**0.0000**	**16.4338**

3.4 Grading - 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					
Fugitive Dust					0.0597	0.0000	0.0597	6.4400e-003	0.0000	6.4400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0417	0.4287	0.4464	9.5000e-004		0.0162	0.0162		0.0149	0.0149	0.0000	83.7918	83.7918	0.0271	0.0000	84.4693
Total	**0.0417**	**0.4287**	**0.4464**	**9.5000e-004**	**0.0597**	**0.0162**	**0.0759**	**6.4400e-003**	**0.0149**	**0.0214**	**0.0000**	**83.7918**	**83.7918**	**0.0271**	**0.0000**	**84.4693**

3.4 Grading - 2026

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	8.4000e-004	0.0538	5.3200e-003	9.0000e-005	2.9000e-004	1.0000e-005	3.0000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	8.7606	8.7606	1.2600e-003	0.0000	8.7921
Vendor	2.2000e-004	8.9400e-003	1.8500e-003	3.0000e-005	8.8000e-004	1.0000e-005	8.9000e-004	2.6000e-004	1.0000e-005	2.6000e-004	0.0000	3.2438	3.2438	1.8000e-004	0.0000	3.2482
Worker	3.1400e-003	1.7400e-003	0.0212	8.0000e-005	0.0108	6.0000e-005	0.0108	2.8600e-003	5.0000e-005	2.9100e-003	0.0000	7.2021	7.2021	1.2000e-004	0.0000	7.2052
Total	**4.2000e-003**	**0.0644**	**0.0284**	**2.0000e-004**	**0.0119**	**8.0000e-005**	**0.0120**	**3.2000e-003**	**7.0000e-005**	**3.2600e-003**	**0.0000**	**19.2065**	**19.2065**	**1.5600e-003**	**0.0000**	**19.2455**

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					0.0233	0.0000	0.0233	2.5100e-003	0.0000	2.5100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0417	0.4287	0.4464	9.5000e-004		0.0162	0.0162		0.0149	0.0149	0.0000	83.7917	83.7917	0.0271	0.0000	84.4692
Total	**0.0417**	**0.4287**	**0.4464**	**9.5000e-004**	**0.0233**	**0.0162**	**0.0395**	**2.5100e-003**	**0.0149**	**0.0174**	**0.0000**	**83.7917**	**83.7917**	**0.0271**	**0.0000**	**84.4692**

3.4 Grading - 2026

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	8.4000e-004	0.0538	5.3200e-003	9.0000e-005	2.9000e-004	1.0000e-005	3.0000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	8.7606	8.7606	1.2600e-003	0.0000	8.7921
Vendor	2.2000e-004	8.9400e-003	1.8500e-003	3.0000e-005	8.8000e-004	1.0000e-005	8.9000e-004	2.6000e-004	1.0000e-005	2.6000e-004	0.0000	3.2438	3.2438	1.8000e-004	0.0000	3.2482
Worker	3.1400e-003	1.7400e-003	0.0212	8.0000e-005	0.0108	6.0000e-005	0.0108	2.8600e-003	5.0000e-005	2.9100e-003	0.0000	7.2021	7.2021	1.2000e-004	0.0000	7.2052
Total	**4.2000e-003**	**0.0644**	**0.0284**	**2.0000e-004**	**0.0119**	**8.0000e-005**	**0.0120**	**3.2000e-003**	**7.0000e-005**	**3.2600e-003**	**0.0000**	**19.2065**	**19.2065**	**1.5600e-003**	**0.0000**	**19.2455**

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	0.1513	1.2244	1.6152	2.6900e-003		0.0442	0.0442		0.0423	0.0423	0.0000	222.2749	222.2749	0.0465	0.0000	223.4370
Total	**0.1513**	**1.2244**	**1.6152**	**2.6900e-003**		**0.0442**	**0.0442**		**0.0423**	**0.0423**	**0.0000**	**222.2749**	**222.2749**	**0.0465**	**0.0000**	**223.4370**

3.5 Building Construction - 2026

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	1.3000e-004	4.6400e-003	1.0300e-003	3.0000e-005	2.2400e-003	1.0000e-005	2.2500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	2.6149	2.6149	1.3000e-004	0.0000	2.6180
Vendor	4.2400e-003	0.1701	0.0352	6.4000e-004	0.0168	1.7000e-004	0.0170	4.8500e-003	1.6000e-004	5.0100e-003	0.0000	61.6789	61.6789	3.3300e-003	0.0000	61.7622
Worker	0.0388	0.0214	0.2617	9.8000e-004	0.1330	7.1000e-004	0.1337	0.0353	6.6000e-004	0.0360	0.0000	88.9236	88.9236	1.5300e-003	0.0000	88.9617
Total	**0.0431**	**0.1962**	**0.2979**	**1.6500e-003**	**0.1520**	**8.9000e-004**	**0.1529**	**0.0407**	**8.3000e-004**	**0.0416**	**0.0000**	**153.2173**	**153.2173**	**4.9900e-003**	**0.0000**	**153.3419**

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	0.1513	1.2244	1.6152	2.6900e-003		0.0442	0.0442		0.0423	0.0423	0.0000	222.2746	222.2746	0.0465	0.0000	223.4368
Total	**0.1513**	**1.2244**	**1.6152**	**2.6900e-003**		**0.0442**	**0.0442**		**0.0423**	**0.0423**	**0.0000**	**222.2746**	**222.2746**	**0.0465**	**0.0000**	**223.4368**

3.5 Building Construction - 2026

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	1.3000e-004	4.6400e-003	1.0300e-003	3.0000e-005	2.2400e-003	1.0000e-005	2.2500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	2.6149	2.6149	1.3000e-004	0.0000	2.6180
Vendor	4.2400e-003	0.1701	0.0352	6.4000e-004	0.0168	1.7000e-004	0.0170	4.8500e-003	1.6000e-004	5.0100e-003	0.0000	61.6789	61.6789	3.3300e-003	0.0000	61.7622
Worker	0.0388	0.0214	0.2617	9.8000e-004	0.1330	7.1000e-004	0.1337	0.0353	6.6000e-004	0.0360	0.0000	88.9236	88.9236	1.5300e-003	0.0000	88.9617
Total	**0.0431**	**0.1962**	**0.2979**	**1.6500e-003**	**0.1520**	**8.9000e-004**	**0.1529**	**0.0407**	**8.3000e-004**	**0.0416**	**0.0000**	**153.2173**	**153.2173**	**4.9900e-003**	**0.0000**	**153.3419**

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	0.3264	2.6411	3.4841	5.8000e-003		0.0952	0.0952		0.0912	0.0912	0.0000	479.4524	479.4524	0.1003	0.0000	481.9592
Total	**0.3264**	**2.6411**	**3.4841**	**5.8000e-003**		**0.0952**	**0.0952**		**0.0912**	**0.0912**	**0.0000**	**479.4524**	**479.4524**	**0.1003**	**0.0000**	**481.9592**

3.5 Building Construction - 2027

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	2.7000e-004	9.8300e-003	2.2300e-003	6.0000e-005	2.4300e-003	2.0000e-005	2.4500e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	5.6128	5.6128	2.7000e-004	0.0000	5.6195
Vendor	8.9600e-003	0.3630	0.0741	1.3800e-003	0.0363	3.7000e-004	0.0366	0.0105	3.5000e-004	0.0108	0.0000	132.3430	132.3430	6.9900e-003	0.0000	132.5177
Worker	0.0793	0.0425	0.5281	2.0500e-003	0.2869	1.4600e-003	0.2883	0.0762	1.3400e-003	0.0775	0.0000	185.4548	185.4548	3.0100e-003	0.0000	185.5299
Total	**0.0885**	**0.4153**	**0.6044**	**3.4900e-003**	**0.3256**	**1.8500e-003**	**0.3274**	**0.0873**	**1.7100e-003**	**0.0890**	**0.0000**	**323.4106**	**323.4106**	**0.0103**	**0.0000**	**323.6671**

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	0.3264	2.6411	3.4841	5.8000e-003		0.0952	0.0952		0.0912	0.0912	0.0000	479.4518	479.4518	0.1003	0.0000	481.9586
Total	**0.3264**	**2.6411**	**3.4841**	**5.8000e-003**		**0.0952**	**0.0952**		**0.0912**	**0.0912**	**0.0000**	**479.4518**	**479.4518**	**0.1003**	**0.0000**	**481.9586**

3.5 Building Construction - 2027

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	2.7000e-004	9.8300e-003	2.2300e-003	6.0000e-005	2.4300e-003	2.0000e-005	2.4500e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	5.6128	5.6128	2.7000e-004	0.0000	5.6195
Vendor	8.9600e-003	0.3630	0.0741	1.3800e-003	0.0363	3.7000e-004	0.0366	0.0105	3.5000e-004	0.0108	0.0000	132.3430	132.3430	6.9900e-003	0.0000	132.5177
Worker	0.0793	0.0425	0.5281	2.0500e-003	0.2869	1.4600e-003	0.2883	0.0762	1.3400e-003	0.0775	0.0000	185.4548	185.4548	3.0100e-003	0.0000	185.5299
Total	**0.0885**	**0.4153**	**0.6044**	**3.4900e-003**	**0.3256**	**1.8500e-003**	**0.3274**	**0.0873**	**1.7100e-003**	**0.0890**	**0.0000**	**323.4106**	**323.4106**	**0.0103**	**0.0000**	**323.6671**

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	0.1476	1.1941	1.5752	2.6200e-003		0.0431	0.0431		0.0412	0.0412	0.0000	216.7639	216.7639	0.0453	0.0000	217.8973
Total	**0.1476**	**1.1941**	**1.5752**	**2.6200e-003**		**0.0431**	**0.0431**		**0.0412**	**0.0412**	**0.0000**	**216.7639**	**216.7639**	**0.0453**	**0.0000**	**217.8973**

3.5 Building Construction - 2028

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	1.2000e-004	4.3800e-003	1.0200e-003	3.0000e-005	2.2400e-003	1.0000e-005	2.2400e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	2.5277	2.5277	1.2000e-004	0.0000	2.5306
Vendor	3.9900e-003	0.1626	0.0329	6.2000e-004	0.0164	1.6000e-004	0.0166	4.7300e-003	1.6000e-004	4.8900e-003	0.0000	59.5765	59.5765	3.0700e-003	0.0000	59.6532
Worker	0.0339	0.0177	0.2244	9.0000e-004	0.1297	6.1000e-004	0.1303	0.0344	5.6000e-004	0.0350	0.0000	81.3380	81.3380	1.2500e-003	0.0000	81.3692
Total	**0.0380**	**0.1847**	**0.2583**	**1.5500e-003**	**0.1483**	**7.8000e-004**	**0.1491**	**0.0397**	**7.3000e-004**	**0.0405**	**0.0000**	**143.4421**	**143.4421**	**4.4400e-003**	**0.0000**	**143.5530**

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	0.1476	1.1941	1.5752	2.6200e-003		0.0431	0.0431		0.0412	0.0412	0.0000	216.7636	216.7636	0.0453	0.0000	217.8970
Total	**0.1476**	**1.1941**	**1.5752**	**2.6200e-003**		**0.0431**	**0.0431**		**0.0412**	**0.0412**	**0.0000**	**216.7636**	**216.7636**	**0.0453**	**0.0000**	**217.8970**

3.5 Building Construction - 2028

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	1.2000e-004	4.3800e-003	1.0200e-003	3.0000e-005	2.2400e-003	1.0000e-005	2.2400e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	2.5277	2.5277	1.2000e-004	0.0000	2.5306
Vendor	3.9900e-003	0.1626	0.0329	6.2000e-004	0.0164	1.6000e-004	0.0166	4.7300e-003	1.6000e-004	4.8900e-003	0.0000	59.5765	59.5765	3.0700e-003	0.0000	59.6532
Worker	0.0339	0.0177	0.2244	9.0000e-004	0.1297	6.1000e-004	0.1303	0.0344	5.6000e-004	0.0350	0.0000	81.3380	81.3380	1.2500e-003	0.0000	81.3692
Total	**0.0380**	**0.1847**	**0.2583**	**1.5500e-003**	**0.1483**	**7.8000e-004**	**0.1491**	**0.0397**	**7.3000e-004**	**0.0405**	**0.0000**	**143.4421**	**143.4421**	**4.4400e-003**	**0.0000**	**143.5530**

3.6 Trenching - 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	0.0398	0.3734	0.6696	9.8000e-004		0.0169	0.0169		0.0155	0.0155	0.0000	86.2695	86.2695	0.0279	0.0000	86.9670
Total	**0.0398**	**0.3734**	**0.6696**	**9.8000e-004**		**0.0169**	**0.0169**		**0.0155**	**0.0155**	**0.0000**	**86.2695**	**86.2695**	**0.0279**	**0.0000**	**86.9670**

3.6 Trenching - 2028

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	1.5000e-004	5.5700e-003	1.2900e-003	3.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	3.2131	3.2131	1.5000e-004	0.0000	3.2169
Vendor	4.3000e-004	0.0175	3.5500e-003	7.0000e-005	1.7700e-003	2.0000e-005	1.7900e-003	5.1000e-004	2.0000e-005	5.3000e-004	0.0000	6.4258	6.4258	3.3000e-004	0.0000	6.4341
Worker	0.0121	6.3000e-003	0.0799	3.2000e-004	0.0462	2.2000e-004	0.0464	0.0123	2.0000e-004	0.0125	0.0000	28.9508	28.9508	4.4000e-004	0.0000	28.9619
Total	**0.0127**	**0.0294**	**0.0847**	**4.2000e-004**	**0.0488**	**2.5000e-004**	**0.0490**	**0.0130**	**2.3000e-004**	**0.0132**	**0.0000**	**38.5898**	**38.5898**	**9.2000e-004**	**0.0000**	**38.6129**

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	0.0398	0.3734	0.6696	9.8000e-004		0.0169	0.0169		0.0155	0.0155	0.0000	86.2694	86.2694	0.0279	0.0000	86.9669
Total	**0.0398**	**0.3734**	**0.6696**	**9.8000e-004**		**0.0169**	**0.0169**		**0.0155**	**0.0155**	**0.0000**	**86.2694**	**86.2694**	**0.0279**	**0.0000**	**86.9669**

3.6 Trenching - 2028

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	1.5000e-004	5.5700e-003	1.2900e-003	3.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	3.2131	3.2131	1.5000e-004	0.0000	3.2169
Vendor	4.3000e-004	0.0175	3.5500e-003	7.0000e-005	1.7700e-003	2.0000e-005	1.7900e-003	5.1000e-004	2.0000e-005	5.3000e-004	0.0000	6.4258	6.4258	3.3000e-004	0.0000	6.4341
Worker	0.0121	6.3000e-003	0.0799	3.2000e-004	0.0462	2.2000e-004	0.0464	0.0123	2.0000e-004	0.0125	0.0000	28.9508	28.9508	4.4000e-004	0.0000	28.9619
Total	**0.0127**	**0.0294**	**0.0847**	**4.2000e-004**	**0.0488**	**2.5000e-004**	**0.0490**	**0.0130**	**2.3000e-004**	**0.0132**	**0.0000**	**38.5898**	**38.5898**	**9.2000e-004**	**0.0000**	**38.6129**

3.7 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	4.6000e-004	4.2900e-003	7.2900e-003	1.0000e-005		2.1000e-004	2.1000e-004		1.9000e-004	1.9000e-004	0.0000	1.0010	1.0010	3.2000e-004	0.0000	1.0091
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.6000e-004**	**4.2900e-003**	**7.2900e-003**	**1.0000e-005**		**2.1000e-004**	**2.1000e-004**		**1.9000e-004**	**1.9000e-004**	**0.0000**	**1.0010**	**1.0010**	**3.2000e-004**	**0.0000**	**1.0091**

3.7 Paving - 2028

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	3.0000e-005	1.1600e-003	2.7000e-004	1.0000e-005	2.6400e-003	0.0000	2.6400e-003	6.5000e-004	0.0000	6.5000e-004	0.0000	0.6694	0.6694	3.0000e-005	0.0000	0.6702
Vendor	0.0000	1.3000e-004	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0459	0.0459	0.0000	0.0000	0.0460
Worker	5.0000e-005	2.0000e-005	3.0000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1103	0.1103	0.0000	0.0000	0.1103
Total	**8.0000e-005**	**1.3100e-003**	**6.0000e-004**	**1.0000e-005**	**2.8300e-003**	**0.0000**	**2.8300e-003**	**7.0000e-004**	**0.0000**	**7.0000e-004**	**0.0000**	**0.8256**	**0.8256**	**3.0000e-005**	**0.0000**	**0.8265**

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	4.6000e-004	4.2900e-003	7.2900e-003	1.0000e-005		2.1000e-004	2.1000e-004		1.9000e-004	1.9000e-004	0.0000	1.0010	1.0010	3.2000e-004	0.0000	1.0091
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.6000e-004**	**4.2900e-003**	**7.2900e-003**	**1.0000e-005**		**2.1000e-004**	**2.1000e-004**		**1.9000e-004**	**1.9000e-004**	**0.0000**	**1.0010**	**1.0010**	**3.2000e-004**	**0.0000**	**1.0091**

3.7 Paving - 2028

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	3.0000e-005	1.1600e-003	2.7000e-004	1.0000e-005	2.6400e-003	0.0000	2.6400e-003	6.5000e-004	0.0000	6.5000e-004	0.0000	0.6694	0.6694	3.0000e-005	0.0000	0.6702
Vendor	0.0000	1.3000e-004	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0459	0.0459	0.0000	0.0000	0.0460
Worker	5.0000e-005	2.0000e-005	3.0000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1103	0.1103	0.0000	0.0000	0.1103
Total	**8.0000e-005**	**1.3100e-003**	**6.0000e-004**	**1.0000e-005**	**2.8300e-003**	**0.0000**	**2.8300e-003**	**7.0000e-004**	**0.0000**	**7.0000e-004**	**0.0000**	**0.8256**	**0.8256**	**3.0000e-005**	**0.0000**	**0.8265**

3.7 Paving - 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	8.6900e-003	0.0815	0.1385	2.2000e-004		3.9800e-003	3.9800e-003		3.6600e-003	3.6600e-003	0.0000	19.0183	19.0183	6.1500e-003	0.0000	19.1721
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.6900e-003**	**0.0815**	**0.1385**	**2.2000e-004**		**3.9800e-003**	**3.9800e-003**		**3.6600e-003**	**3.6600e-003**	**0.0000**	**19.0183**	**19.0183**	**6.1500e-003**	**0.0000**	**19.1721**

3.7 Paving - 2029

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	6.0000e-004	0.0218	5.1500e-003	1.3000e-004	3.4000e-003	4.0000e-005	3.4500e-003	9.3000e-004	4.0000e-005	9.7000e-004	0.0000	12.6735	12.6735	5.8000e-004	0.0000	12.6880
Vendor	6.0000e-005	2.3600e-003	4.7000e-004	1.0000e-005	2.4000e-004	0.0000	2.4000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.8687	0.8687	4.0000e-005	0.0000	0.8698
Worker	8.2000e-004	4.2000e-004	5.4300e-003	2.0000e-005	3.3400e-003	1.0000e-005	3.3600e-003	8.9000e-004	1.0000e-005	9.0000e-004	0.0000	2.0390	2.0390	3.0000e-005	0.0000	2.0397
Total	**1.4800e-003**	**0.0246**	**0.0111**	**1.6000e-004**	**6.9800e-003**	**5.0000e-005**	**7.0500e-003**	**1.8900e-003**	**5.0000e-005**	**1.9400e-003**	**0.0000**	**15.5812**	**15.5812**	**6.5000e-004**	**0.0000**	**15.5975**

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	8.6900e-003	0.0815	0.1385	2.2000e-004		3.9800e-003	3.9800e-003		3.6600e-003	3.6600e-003	0.0000	19.0183	19.0183	6.1500e-003	0.0000	19.1720
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.6900e-003**	**0.0815**	**0.1385**	**2.2000e-004**		**3.9800e-003**	**3.9800e-003**		**3.6600e-003**	**3.6600e-003**	**0.0000**	**19.0183**	**19.0183**	**6.1500e-003**	**0.0000**	**19.1720**

3.7 Paving - 2029

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	6.0000e-004	0.0218	5.1500e-003	1.3000e-004	3.4000e-003	4.0000e-005	3.4500e-003	9.3000e-004	4.0000e-005	9.7000e-004	0.0000	12.6735	12.6735	5.8000e-004	0.0000	12.6880
Vendor	6.0000e-005	2.3600e-003	4.7000e-004	1.0000e-005	2.4000e-004	0.0000	2.4000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.8687	0.8687	4.0000e-005	0.0000	0.8698
Worker	8.2000e-004	4.2000e-004	5.4300e-003	2.0000e-005	3.3400e-003	1.0000e-005	3.3600e-003	8.9000e-004	1.0000e-005	9.0000e-004	0.0000	2.0390	2.0390	3.0000e-005	0.0000	2.0397
Total	**1.4800e-003**	**0.0246**	**0.0111**	**1.6000e-004**	**6.9800e-003**	**5.0000e-005**	**7.0500e-003**	**1.8900e-003**	**5.0000e-005**	**1.9400e-003**	**0.0000**	**15.5812**	**15.5812**	**6.5000e-004**	**0.0000**	**15.5975**

3.8 Architectural Coating - 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					
Archit. Coating	1.1499					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.0802	0.1266	2.1000e-004		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	17.8728	17.8728	9.7000e-004	0.0000	17.8972
Total	**1.1619**	**0.0802**	**0.1266**	**2.1000e-004**		**3.6100e-003**	**3.6100e-003**		**3.6100e-003**	**3.6100e-003**	**0.0000**	**17.8728**	**17.8728**	**9.7000e-004**	**0.0000**	**17.8972**

3.8 Architectural Coating - 2029

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	1.1000e-004	4.3500e-003	8.7000e-004	2.0000e-005	4.4000e-004	0.0000	4.5000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	1.6003	1.6003	8.0000e-005	0.0000	1.6023
Worker	2.6500e-003	1.3500e-003	0.0175	7.0000e-005	0.0108	5.0000e-005	0.0108	2.8600e-003	4.0000e-005	2.9000e-003	0.0000	6.5730	6.5730	1.0000e-004	0.0000	6.5753
Total	**2.7600e-003**	**5.7000e-003**	**0.0184**	**9.0000e-005**	**0.0112**	**5.0000e-005**	**0.0113**	**2.9900e-003**	**4.0000e-005**	**3.0300e-003**	**0.0000**	**8.1732**	**8.1732**	**1.8000e-004**	**0.0000**	**8.1776**

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	1.1499					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.0802	0.1266	2.1000e-004		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	17.8728	17.8728	9.7000e-004	0.0000	17.8971
Total	**1.1619**	**0.0802**	**0.1266**	**2.1000e-004**		**3.6100e-003**	**3.6100e-003**		**3.6100e-003**	**3.6100e-003**	**0.0000**	**17.8728**	**17.8728**	**9.7000e-004**	**0.0000**	**17.8971**

3.8 Architectural Coating - 2029

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	1.1000e-004	4.3500e-003	8.7000e-004	2.0000e-005	4.4000e-004	0.0000	4.5000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	1.6003	1.6003	8.0000e-005	0.0000	1.6023
Worker	2.6500e-003	1.3500e-003	0.0175	7.0000e-005	0.0108	5.0000e-005	0.0108	2.8600e-003	4.0000e-005	2.9000e-003	0.0000	6.5730	6.5730	1.0000e-004	0.0000	6.5753
Total	**2.7600e-003**	**5.7000e-003**	**0.0184**	**9.0000e-005**	**0.0112**	**5.0000e-005**	**0.0113**	**2.9900e-003**	**4.0000e-005**	**3.0300e-003**	**0.0000**	**8.1732**	**8.1732**	**1.8000e-004**	**0.0000**	**8.1776**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Limit Parking Supply

Implement Trip Reduction Program

Market Commute Trip Reduction Option

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7261	6.7233	4.7935	0.0247	1.6503	0.0119	1.6622	0.4418	0.0110	0.4529	0.0000	2,313.3589	2,313.3589	0.1591	0.0000	2,317.3361
Unmitigated	0.7488	6.8542	5.3996	0.0285	2.0629	0.0138	2.0767	0.5523	0.0128	0.5651	0.0000	2,667.1977	2,667.1977	0.1675	0.0000	2,671.3852

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Light Industry	0.00	0.00	0.00		
Hospital	4,074.00	3,137.16	2745.79	3,478,457	2,782,766
Medical Office Building	2,262.00	560.96	97.04	1,931,338	1,545,070
Total	6,336.00	3,698.13	2,842.83	5,409,795	4,327,836

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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Hospital	0.00	2.55	0.00	0.00	100.00	0.00	100	0	0
Medical Office Building	0.00	3.10	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
General Light Industry	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Hospital	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Medical Office Building	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	495.1805	495.1805	0.0406	8.4000e-003	498.6970
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	707.4007	707.4007	0.0580	0.0120	712.4243
NaturalGas Mitigated	0.2563	2.3299	1.9571	0.0140		0.1771	0.1771		0.1771	0.1771	0.0000	2,536.3818	2,536.3818	0.0486	0.0465	2,551.4543
NaturalGas Unmitigated	0.3661	3.3284	2.7959	0.0200		0.2530	0.2530		0.2530	0.2530	0.0000	3,623.4026	3,623.4026	0.0695	0.0664	3,644.9347

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					
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 Light Industry	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
Hospital	6.79e+007	0.3661	3.3284	2.7959	0.0200		0.2530	0.2530		0.2530	0.2530	0.0000	3,623.4026	3,623.4026	0.0695	0.0664	3,644.9347
Medical Office Building	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
Total		**0.3661**	**3.3284**	**2.7959**	**0.0200**		**0.2530**	**0.2530**		**0.2530**	**0.2530**	**0.0000**	**3,623.4026**	**3,623.4026**	**0.0695**	**0.0664**	**3,644.9347**

5.2 Energy by Land Use - NaturalGas

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 Light Industry	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
Hospital	4.753e+007	0.2563	2.3299	1.9571	0.0140		0.1771	0.1771		0.1771	0.1771	0.0000	2,536.3818	2,536.3818	0.0486	0.0465	2,551.4543
Medical Office Building	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
Total		**0.2563**	**2.3299**	**1.9571**	**0.0140**		**0.1771**	**0.1771**		**0.1771**	**0.1771**	**0.0000**	**2,536.3818**	**2,536.3818**	**0.0486**	**0.0465**	**2,551.4543**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Hospital	4.40713e +006	707.4007	0.0580	0.0120	712.4243
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Total		**707.4007**	**0.0580**	**0.0120**	**712.4243**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Hospital	3.08499e+006	495.1805	0.0406	8.4000e-003	498.6970
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Total		**495.1805**	**0.0406**	**8.4000e-003**	**498.6970**

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	1.8011	2.6000e-004	0.0286	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.0559	0.0559	1.4000e-004	0.0000	0.0595
Unmitigated	1.8011	2.6000e-004	0.0286	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.0559	0.0559	1.4000e-004	0.0000	0.0595

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	0.1150					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6835					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.6200e-003	2.6000e-004	0.0286	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.0559	0.0559	1.4000e-004	0.0000	0.0595
Total	**1.8011**	**2.6000e-004**	**0.0286**	**0.0000**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**	**0.0000**	**0.0559**	**0.0559**	**1.4000e-004**	**0.0000**	**0.0595**

6.2 Area by SubCategory

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	0.1150					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6835					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.6200e-003	2.6000e-004	0.0286	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.0559	0.0559	1.4000e-004	0.0000	0.0595
Total	**1.8011**	**2.6000e-004**	**0.0286**	**0.0000**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**	**0.0000**	**0.0559**	**0.0559**	**1.4000e-004**	**0.0000**	**0.0595**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed 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	114.4655	1.5120	0.0372	163.3518
Unmitigated	157.8409	1.8912	0.0468	219.0536

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	1.85 / 0	4.4535	0.0606	1.4900e-003	6.4122
Hospital	47.6826 / 9.0824	130.9825	1.5632	0.0387	181.5814
Medical Office Building	8.15623 / 1.55357	22.4049	0.2674	6.6100e-003	31.0600
Total		**157.8409**	**1.8912**	**0.0468**	**219.0536**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	1.48 / 0	3.5628	0.0485	1.1900e-003	5.1297
Hospital	38.1461 / 1.61202	94.7034	1.2498	0.0308	135.1110
Medical Office Building	6.52499 / 0.275741	16.1993	0.2138	5.2600e-003	23.1111
Total		**114.4655**	**1.5120**	**0.0372**	**163.3518**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	244.3971	14.4435	0.0000	605.4834
Unmitigated	977.5882	57.7738	0.0000	2,421.9335

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	9.92	2.0137	0.1190	0.0000	4.9888
Hospital	4104	833.0749	49.2333	0.0000	2,063.9078
Medical Office Building	702	142.4997	8.4215	0.0000	353.0369
Total		**977.5882**	**57.7738**	**0.0000**	**2,421.9335**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	2.48	0.5034	0.0298	0.0000	1.2472
Hospital	1026	208.2687	12.3083	0.0000	515.9770
Medical Office Building	175.5	35.6249	2.1054	0.0000	88.2592
Total		**244.3971**	**14.4435**	**0.0000**	**605.4834**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Kaiser Moreno Valley - Phase II

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	380.00	1000sqft	8.72	380,000.00	0
Medical Office Building	65.00	1000sqft	1.49	65,000.00	0
General Light Industry	8.00	1000sqft	0.18	8,000.00	0
Enclosed Parking with Elevator	400.00	Space	3.60	160,000.00	0
Enclosed Parking with Elevator	1,400.00	Space	12.60	560,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	353.87	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - In accordance with SB 100 RPS goal of 60% by 2030.

Land Use - Based on project description.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - Based on applicant provided information. Grading is balanced onsite.

On-road Fugitive Dust - CalEEMod defaults.

Grading - CalEEMod defaults.

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Based on trip gen for Phase II.

Road Dust - CalEEMod defaults.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - Based on applicant provided information.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - water 3x daily and vehicle speed limit of 15 mph on unpaved roads.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation - All LED lighting. Assumes compliance with 2019 Title 24.

Water Mitigation -

Waste Mitigation - In accordance with AB 939.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	LightingElect	4.52	0.00
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24E	5.56	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	NT24NG	6.03	0.00
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	2.20	0.00
tblEnergyUse	T24E	8.35	11.60
tblEnergyUse	T24E	3.07	0.00
tblEnergyUse	T24NG	15.36	0.00
tblEnergyUse	T24NG	69.49	178.68
tblEnergyUse	T24NG	3.47	0.00
tblGrading	AcresOfGrading	70.00	112.50
tblGrading	AcresOfGrading	25.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	0.50
tblTripsAndVMT	HaulingTripNumber	0.00	300.00
tblTripsAndVMT	HaulingTripNumber	0.00	200.00

tblTripsAndVMT	HaulingTripNumber	0.00	1,300.00
tblTripsAndVMT	HaulingTripNumber	0.00	320.00
tblTripsAndVMT	HaulingTripNumber	0.00	96.00
tblTripsAndVMT	HaulingTripNumber	0.00	400.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	192.00	44.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	8.00	40.00
tblTripsAndVMT	WorkerTripNumber	8.00	40.00
tblTripsAndVMT	WorkerTripNumber	15.00	28.00
tblTripsAndVMT	WorkerTripNumber	448.00	200.00
tblTripsAndVMT	WorkerTripNumber	10.00	60.00
tblTripsAndVMT	WorkerTripNumber	8.00	16.00
tblTripsAndVMT	WorkerTripNumber	90.00	28.00
tblVehicleTrips	CC_TL	8.40	2.55
tblVehicleTrips	CC_TL	8.40	3.10
tblVehicleTrips	CC_TTP	16.10	100.00
tblVehicleTrips	CC_TTP	51.40	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00

tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	64.90	0.00
tblVehicleTrips	CW_TTP	29.60	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	DV_TP	30.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	10.00	0.00
tblVehicleTrips	PR_TP	73.00	100.00
tblVehicleTrips	PR_TP	60.00	100.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	10.18	8.26
tblVehicleTrips	ST_TR	8.96	8.63
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	8.91	7.23
tblVehicleTrips	SU_TR	1.55	1.49
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	13.22	10.72
tblVehicleTrips	WD_TR	36.13	34.80

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2026	3.2748	23.4577	32.3632	0.0734	2.5549	0.7445	3.2994	0.6835	0.7123	1.3959	0.0000	6,999.6313	6,999.6313	0.9381	0.0000	7,023.0826
2027	3.2366	23.4004	32.0247	0.0727	2.5362	0.7438	3.2800	0.6789	0.7117	1.3906	0.0000	6,935.0083	6,935.0083	0.9338	0.0000	6,958.3523
2028	3.1991	23.3516	31.7320	0.0722	2.8785	0.7430	3.2988	0.7156	0.7109	1.3947	0.0000	6,879.0378	6,879.0378	0.9299	0.0000	6,902.2845
2029	33.2830	5.5736	7.9090	0.0202	0.3734	0.2124	0.5858	0.1008	0.1955	0.2962	0.0000	2,025.8833	2,025.8833	0.3938	0.0000	2,035.7290
Maximum	**33.2830**	**23.4577**	**32.3632**	**0.0734**	**2.8785**	**0.7445**	**3.2994**	**0.7156**	**0.7123**	**1.3959**	**0.0000**	**6,999.6313**	**6,999.6313**	**0.9381**	**0.0000**	**7,023.0826**

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2026	3.2748	23.4577	32.3632	0.0734	2.5549	0.7445	3.2994	0.6835	0.7123	1.3959	0.0000	6,999.6313	6,999.6313	0.9381	0.0000	7,023.0826
2027	3.2366	23.4004	32.0247	0.0727	2.5362	0.7438	3.2800	0.6789	0.7117	1.3906	0.0000	6,935.0083	6,935.0083	0.9338	0.0000	6,958.3523
2028	3.1991	23.3516	31.7320	0.0722	2.8785	0.7430	3.2988	0.7156	0.7109	1.3947	0.0000	6,879.0378	6,879.0378	0.9299	0.0000	6,902.2845
2029	33.2830	5.5736	7.9090	0.0202	0.3734	0.2124	0.5858	0.1008	0.1955	0.2962	0.0000	2,025.8833	2,025.8833	0.3938	0.0000	2,035.7290
Maximum	**33.2830**	**23.4577**	**32.3632**	**0.0734**	**2.8785**	**0.7445**	**3.2994**	**0.7156**	**0.7123**	**1.3959**	**0.0000**	**6,999.6313**	**6,999.6313**	**0.9381**	**0.0000**	**7,023.0826**

	ROG	NOx	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**	**0.00**	**0.00**

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	lb/day										lb/day					
Area	9.8755	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249
Energy	2.0062	18.2380	15.3199	0.1094		1.3861	1.3861		1.3861	1.3861		21,885.5762	21,885.5762	0.4195	0.4012	22,015.6312
Mobile	5.9189	44.0091	36.2698	0.1927	13.4911	0.0880	13.5791	3.6069	0.0818	3.6887		19,887.9269	19,887.9269	1.1410		19,916.4527
Total	**17.8006**	**62.2492**	**51.8186**	**0.3022**	**13.4911**	**1.4749**	**14.9660**	**3.6069**	**1.4687**	**5.0756**		**41,773.9961**	**41,773.9961**	**1.5618**	**0.4012**	**41,932.6088**

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	lb/day										lb/day					
Area	9.8755	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249
Energy	1.4043	12.7666	10.7239	0.0766		0.9703	0.9703		0.9703	0.9703		15,319.9033	15,319.9033	0.2936	0.2809	15,410.9418
Mobile	5.7676	43.2191	31.6710	0.1668	10.7929	0.0758	10.8687	2.8855	0.0704	2.9559		17,241.1756	17,241.1756	1.0790		17,268.1499
Total	**17.0474**	**55.9878**	**42.6238**	**0.2435**	**10.7929**	**1.0469**	**11.8398**	**2.8855**	**1.0415**	**3.9270**		**32,561.5720**	**32,561.5720**	**1.3739**	**0.2809**	**32,679.6166**

	ROG	NOx	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	**4.23**	**10.06**	**17.74**	**19.44**	**20.00**	**29.02**	**20.89**	**20.00**	**29.09**	**22.63**	**0.00**	**22.05**	**22.05**	**12.03**	**30.00**	**22.07**

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	1/1/2026	1/28/2026	5	20	
2	Site Preparation	Site Preparation	1/29/2026	4/8/2026	5	50	
3	Grading	Grading	4/9/2026	7/15/2026	5	70	
4	Building Construction	Building Construction	7/16/2026	6/14/2028	5	500	
5	Trenching	Trenching	6/15/2028	12/27/2028	5	140	
6	Paving	Paving	12/28/2028	2/21/2029	5	40	
7	Architectural Coating	Architectural Coating	2/22/2029	5/30/2029	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 16.2

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 679,500; Non-Residential Outdoor: 226,500; Striped Parking Area: 43,200 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crawler Tractors	1	8.00	212	0.43
Demolition	Excavators	0	8.00	158	0.38

Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Other Construction Equipment	1	8.00	172	0.42
Building Construction	Rough Terrain Forklifts	2	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	6	8.00	46	0.45
Trenching	Excavators	1	8.00	158	0.38
Trenching	Rollers	1	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Architectural Coating	Air Compressors	2	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	3	40.00	4.00	300.00	14.70	6.90	40.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	40.00	4.00	200.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	28.00	4.00	1,300.00	14.70	6.90	0.50	LD_Mix	HDT_Mix	HHDT
Building Construction	13	200.00	44.00	320.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	60.00	4.00	96.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	16.00	2.00	400.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	28.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 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	lb/day										lb/day					
Off-Road	0.7344	7.1515	5.8050	0.0172		0.2710	0.2710		0.2493	0.2493		1,665.9461	1,665.9461	0.5388		1,679.4161
Total	**0.7344**	**7.1515**	**5.8050**	**0.0172**		**0.2710**	**0.2710**		**0.2493**	**0.2493**		**1,665.9461**	**1,665.9461**	**0.5388**		**1,679.4161**

3.2 Demolition - 2026

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	lb/day										lb/day					
Hauling	0.0772	2.3209	0.6640	0.0192	0.5243	6.8000e-003	0.5311	0.1437	6.5000e-003	0.1502		2,044.9638	2,044.9638	0.0735		2,046.8023
Vendor	6.2300e-003	0.2556	0.0491	9.8000e-004	0.0256	2.6000e-004	0.0259	7.3700e-003	2.5000e-004	7.6200e-003		103.7480	103.7480	5.2700e-003		103.8798
Worker	0.1406	0.0664	1.0219	3.5300e-003	0.4471	2.3600e-003	0.4495	0.1186	2.1700e-003	0.1207		352.0825	352.0825	6.1700e-003		352.2367
Total	**0.2239**	**2.6429**	**1.7349**	**0.0237**	**0.9970**	**9.4200e-003**	**1.0064**	**0.2696**	**8.9200e-003**	**0.2785**		**2,500.7942**	**2,500.7942**	**0.0850**		**2,502.9189**

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	lb/day										lb/day					
Off-Road	0.7344	7.1515	5.8050	0.0172		0.2710	0.2710		0.2493	0.2493	0.0000	1,665.9461	1,665.9461	0.5388		1,679.4161
Total	**0.7344**	**7.1515**	**5.8050**	**0.0172**		**0.2710**	**0.2710**		**0.2493**	**0.2493**	**0.0000**	**1,665.9461**	**1,665.9461**	**0.5388**		**1,679.4161**

3.2 Demolition - 2026

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	lb/day										lb/day					
Hauling	0.0772	2.3209	0.6640	0.0192	0.5243	6.8000e-003	0.5311	0.1437	6.5000e-003	0.1502		2,044.9638	2,044.9638	0.0735		2,046.8023
Vendor	6.2300e-003	0.2556	0.0491	9.8000e-004	0.0256	2.6000e-004	0.0259	7.3700e-003	2.5000e-004	7.6200e-003		103.7480	103.7480	5.2700e-003		103.8798
Worker	0.1406	0.0664	1.0219	3.5300e-003	0.4471	2.3600e-003	0.4495	0.1186	2.1700e-003	0.1207		352.0825	352.0825	6.1700e-003		352.2367
Total	**0.2239**	**2.6429**	**1.7349**	**0.0237**	**0.9970**	**9.4200e-003**	**1.0064**	**0.2696**	**8.9200e-003**	**0.2785**		**2,500.7942**	**2,500.7942**	**0.0850**		**2,502.9189**

3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5754	6.1269	6.0534	0.0129		0.2194	0.2194		0.2019	0.2019		1,244.3513	1,244.3513	0.4025		1,254.4125
Total	**0.5754**	**6.1269**	**6.0534**	**0.0129**	**0.0000**	**0.2194**	**0.2194**	**0.0000**	**0.2019**	**0.2019**		**1,244.3513**	**1,244.3513**	**0.4025**		**1,254.4125**

3.3 Site Preparation - 2026

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	lb/day										lb/day					
Hauling	0.0127	0.4753	0.1013	2.8300e-003	0.0699	9.2000e-004	0.0709	0.0192	8.8000e-004	0.0201		300.8657	300.8657	0.0138		301.2103
Vendor	6.2300e-003	0.2556	0.0491	9.8000e-004	0.0256	2.6000e-004	0.0259	7.3700e-003	2.5000e-004	7.6200e-003		103.7480	103.7480	5.2700e-003		103.8798
Worker	0.1406	0.0664	1.0219	3.5300e-003	0.4471	2.3600e-003	0.4495	0.1186	2.1700e-003	0.1207		352.0825	352.0825	6.1700e-003		352.2367
Total	**0.1594**	**0.7972**	**1.1722**	**7.3400e-003**	**0.5427**	**3.5400e-003**	**0.5462**	**0.1451**	**3.3000e-003**	**0.1484**		**756.6962**	**756.6962**	**0.0252**		**757.3268**

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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5754	6.1269	6.0534	0.0129		0.2194	0.2194		0.2019	0.2019	0.0000	1,244.3513	1,244.3513	0.4025		1,254.4125
Total	**0.5754**	**6.1269**	**6.0534**	**0.0129**	**0.0000**	**0.2194**	**0.2194**	**0.0000**	**0.2019**	**0.2019**	**0.0000**	**1,244.3513**	**1,244.3513**	**0.4025**		**1,254.4125**

3.3 Site Preparation - 2026

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	lb/day										lb/day					
Hauling	0.0127	0.4753	0.1013	2.8300e-003	0.0699	9.2000e-004	0.0709	0.0192	8.8000e-004	0.0201		300.8657	300.8657	0.0138		301.2103
Vendor	6.2300e-003	0.2556	0.0491	9.8000e-004	0.0256	2.6000e-004	0.0259	7.3700e-003	2.5000e-004	7.6200e-003		103.7480	103.7480	5.2700e-003		103.8798
Worker	0.1406	0.0664	1.0219	3.5300e-003	0.4471	2.3600e-003	0.4495	0.1186	2.1700e-003	0.1207		352.0825	352.0825	6.1700e-003		352.2367
Total	**0.1594**	**0.7972**	**1.1722**	**7.3400e-003**	**0.5427**	**3.5400e-003**	**0.5462**	**0.1451**	**3.3000e-003**	**0.1484**		**756.6962**	**756.6962**	**0.0252**		**757.3268**

3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					1.7044	0.0000	1.7044	0.1840	0.0000	0.1840			0.0000			0.0000
Off-Road	1.1905	12.2482	12.7536	0.0273		0.4632	0.4632		0.4261	0.4261		2,638.9908	2,638.9908	0.8535		2,660.3283
Total	**1.1905**	**12.2482**	**12.7536**	**0.0273**	**1.7044**	**0.4632**	**2.1675**	**0.1840**	**0.4261**	**0.6101**		**2,638.9908**	**2,638.9908**	**0.8535**		**2,660.3283**

3.4 Grading - 2026

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	lb/day										lb/day					
Hauling	0.0228	1.5567	0.1270	2.7400e-003	8.5000e-003	2.6000e-004	8.7700e-003	2.3600e-003	2.5000e-004	2.6200e-003		290.2680	290.2680	0.0376		291.2080
Vendor	6.2300e-003	0.2556	0.0491	9.8000e-004	0.0256	2.6000e-004	0.0259	7.3700e-003	2.5000e-004	7.6200e-003		103.7480	103.7480	5.2700e-003		103.8798
Worker	0.0984	0.0465	0.7153	2.4700e-003	0.3130	1.6500e-003	0.3146	0.0830	1.5200e-003	0.0845		246.4578	246.4578	4.3200e-003		246.5657
Total	**0.1275**	**1.8588**	**0.8914**	**6.1900e-003**	**0.3471**	**2.1700e-003**	**0.3493**	**0.0927**	**2.0200e-003**	**0.0948**		**640.4737**	**640.4737**	**0.0472**		**641.6535**

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	lb/day										lb/day					
Fugitive Dust					0.6647	0.0000	0.6647	0.0718	0.0000	0.0718			0.0000			0.0000
Off-Road	1.1905	12.2482	12.7536	0.0273		0.4632	0.4632		0.4261	0.4261	0.0000	2,638.9908	2,638.9908	0.8535		2,660.3283
Total	**1.1905**	**12.2482**	**12.7536**	**0.0273**	**0.6647**	**0.4632**	**1.1279**	**0.0718**	**0.4261**	**0.4979**	**0.0000**	**2,638.9908**	**2,638.9908**	**0.8535**		**2,660.3283**

3.4 Grading - 2026

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	lb/day										lb/day					
Hauling	0.0228	1.5567	0.1270	2.7400e-003	8.5000e-003	2.6000e-004	8.7700e-003	2.3600e-003	2.5000e-004	2.6200e-003		290.2680	290.2680	0.0376		291.2080
Vendor	6.2300e-003	0.2556	0.0491	9.8000e-004	0.0256	2.6000e-004	0.0259	7.3700e-003	2.5000e-004	7.6200e-003		103.7480	103.7480	5.2700e-003		103.8798
Worker	0.0984	0.0465	0.7153	2.4700e-003	0.3130	1.6500e-003	0.3146	0.0830	1.5200e-003	0.0845		246.4578	246.4578	4.3200e-003		246.5657
Total	**0.1275**	**1.8588**	**0.8914**	**6.1900e-003**	**0.3471**	**2.1700e-003**	**0.3493**	**0.0927**	**2.0200e-003**	**0.0948**		**640.4737**	**640.4737**	**0.0472**		**641.6535**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986		4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**		**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2026

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	lb/day										lb/day					
Hauling	2.0200e-003	0.0761	0.0162	4.5000e-004	0.0377	1.5000e-004	0.0378	9.5700e-003	1.4000e-004	9.7100e-003		48.1385	48.1385	2.2100e-003		48.1937
Vendor	0.0686	2.8114	0.5397	0.0108	0.2817	2.8200e-003	0.2845	0.0811	2.7000e-003	0.0838		1,141.2277	1,141.2277	0.0580		1,142.6778
Worker	0.7028	0.3318	5.1093	0.0177	2.2355	0.0118	2.2473	0.5929	0.0109	0.6037		1,760.4126	1,760.4126	0.0308		1,761.1837
Total	**0.7733**	**3.2192**	**5.6652**	**0.0289**	**2.5549**	**0.0148**	**2.5697**	**0.6835**	**0.0137**	**0.6972**		**2,949.7788**	**2,949.7788**	**0.0911**		**2,952.0551**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986	0.0000	4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**	**0.0000**	**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2026

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	lb/day										lb/day					
Hauling	2.0200e-003	0.0761	0.0162	4.5000e-004	0.0377	1.5000e-004	0.0378	9.5700e-003	1.4000e-004	9.7100e-003		48.1385	48.1385	2.2100e-003		48.1937
Vendor	0.0686	2.8114	0.5397	0.0108	0.2817	2.8200e-003	0.2845	0.0811	2.7000e-003	0.0838		1,141.2277	1,141.2277	0.0580		1,142.6778
Worker	0.7028	0.3318	5.1093	0.0177	2.2355	0.0118	2.2473	0.5929	0.0109	0.6037		1,760.4126	1,760.4126	0.0308		1,761.1837
Total	**0.7733**	**3.2192**	**5.6652**	**0.0289**	**2.5549**	**0.0148**	**2.5697**	**0.6835**	**0.0137**	**0.6972**		**2,949.7788**	**2,949.7788**	**0.0911**		**2,952.0551**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986		4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**		**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2027

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	lb/day										lb/day					
Hauling	2.0100e-003	0.0747	0.0163	4.5000e-004	0.0189	1.5000e-004	0.0191	4.9700e-003	1.4000e-004	5.1100e-003		47.9003	47.9003	2.1700e-003		47.9545
Vendor	0.0672	2.7824	0.5266	0.0107	0.2817	2.7800e-003	0.2845	0.0811	2.6600e-003	0.0838		1,135.1402	1,135.1402	0.0564		1,136.5506
Worker	0.6659	0.3048	4.7838	0.0171	2.2355	0.0112	2.2467	0.5929	0.0103	0.6031		1,702.1153	1,702.1153	0.0282		1,702.8198
Total	**0.7352**	**3.1620**	**5.3267**	**0.0283**	**2.5362**	**0.0141**	**2.5503**	**0.6789**	**0.0131**	**0.6920**		**2,885.1557**	**2,885.1557**	**0.0868**		**2,887.3249**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986	0.0000	4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**	**0.0000**	**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2027

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	lb/day										lb/day					
Hauling	2.0100e-003	0.0747	0.0163	4.5000e-004	0.0189	1.5000e-004	0.0191	4.9700e-003	1.4000e-004	5.1100e-003		47.9003	47.9003	2.1700e-003		47.9545
Vendor	0.0672	2.7824	0.5266	0.0107	0.2817	2.7800e-003	0.2845	0.0811	2.6600e-003	0.0838		1,135.1402	1,135.1402	0.0564		1,136.5506
Worker	0.6659	0.3048	4.7838	0.0171	2.2355	0.0112	2.2467	0.5929	0.0103	0.6031		1,702.1153	1,702.1153	0.0282		1,702.8198
Total	**0.7352**	**3.1620**	**5.3267**	**0.0283**	**2.5362**	**0.0141**	**2.5503**	**0.6789**	**0.0131**	**0.6920**		**2,885.1557**	**2,885.1557**	**0.0868**		**2,887.3249**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986		4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**		**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2028

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	lb/day										lb/day					
Hauling	2.0000e-003	0.0737	0.0164	4.5000e-004	0.0386	1.4000e-004	0.0387	9.7900e-003	1.4000e-004	9.9300e-003		47.7104	47.7104	2.1300e-003		47.7636
Vendor	0.0661	2.7584	0.5172	0.0107	0.2817	2.7600e-003	0.2844	0.0811	2.6400e-003	0.0837		1,130.1898	1,130.1898	0.0548		1,131.5607
Worker	0.6296	0.2810	4.5004	0.0166	2.2355	0.0104	2.2459	0.5929	9.5200e-003	0.6024		1,651.2851	1,651.2851	0.0259		1,651.9327
Total	**0.6977**	**3.1131**	**5.0340**	**0.0277**	**2.5558**	**0.0133**	**2.5691**	**0.6838**	**0.0123**	**0.6961**		**2,829.1853**	**2,829.1853**	**0.0829**		**2,831.2570**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986	0.0000	4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**	**0.0000**	**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2028

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	lb/day										lb/day					
Hauling	2.0000e-003	0.0737	0.0164	4.5000e-004	0.0386	1.4000e-004	0.0387	9.7900e-003	1.4000e-004	9.9300e-003		47.7104	47.7104	2.1300e-003		47.7636
Vendor	0.0661	2.7584	0.5172	0.0107	0.2817	2.7600e-003	0.2844	0.0811	2.6400e-003	0.0837		1,130.1898	1,130.1898	0.0548		1,131.5607
Worker	0.6296	0.2810	4.5004	0.0166	2.2355	0.0104	2.2459	0.5929	9.5200e-003	0.6024		1,651.2851	1,651.2851	0.0259		1,651.9327
Total	**0.6977**	**3.1131**	**5.0340**	**0.0277**	**2.5558**	**0.0133**	**2.5691**	**0.6838**	**0.0123**	**0.6961**		**2,829.1853**	**2,829.1853**	**0.0829**		**2,831.2570**

3.6 Trenching - 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	lb/day										lb/day					
Off-Road	0.5683	5.3349	9.5654	0.0140		0.2407	0.2407		0.2214	0.2214		1,358.5115	1,358.5115	0.4394		1,369.4958
Total	**0.5683**	**5.3349**	**9.5654**	**0.0140**		**0.2407**	**0.2407**		**0.2214**	**0.2214**		**1,358.5115**	**1,358.5115**	**0.4394**		**1,369.4958**

3.6 Trenching - 2028

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	lb/day										lb/day					
Hauling	2.1400e-003	0.0790	0.0176	4.8000e-004	0.0120	1.5000e-004	0.0121	3.2900e-003	1.5000e-004	3.4300e-003		51.1183	51.1183	2.2800e-003		51.1752
Vendor	6.0100e-003	0.2508	0.0470	9.7000e-004	0.0256	2.5000e-004	0.0259	7.3700e-003	2.4000e-004	7.6100e-003		102.7445	102.7445	4.9900e-003		102.8692
Worker	0.1889	0.0843	1.3501	4.9700e-003	0.6707	3.1000e-003	0.6738	0.1779	2.8600e-003	0.1807		495.3855	495.3855	7.7700e-003		495.5798
Total	**0.1970**	**0.4141**	**1.4147**	**6.4200e-003**	**0.7083**	**3.5000e-003**	**0.7118**	**0.1885**	**3.2500e-003**	**0.1918**		**649.2483**	**649.2483**	**0.0150**		**649.6242**

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	lb/day										lb/day					
Off-Road	0.5683	5.3349	9.5654	0.0140		0.2407	0.2407		0.2214	0.2214	0.0000	1,358.5115	1,358.5115	0.4394		1,369.4958
Total	**0.5683**	**5.3349**	**9.5654**	**0.0140**		**0.2407**	**0.2407**		**0.2214**	**0.2214**	**0.0000**	**1,358.5115**	**1,358.5115**	**0.4394**		**1,369.4958**

3.6 Trenching - 2028

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	lb/day										lb/day					
Hauling	2.1400e-003	0.0790	0.0176	4.8000e-004	0.0120	1.5000e-004	0.0121	3.2900e-003	1.5000e-004	3.4300e-003		51.1183	51.1183	2.2800e-003		51.1752
Vendor	6.0100e-003	0.2508	0.0470	9.7000e-004	0.0256	2.5000e-004	0.0259	7.3700e-003	2.4000e-004	7.6100e-003		102.7445	102.7445	4.9900e-003		102.8692
Worker	0.1889	0.0843	1.3501	4.9700e-003	0.6707	3.1000e-003	0.6738	0.1779	2.8600e-003	0.1807		495.3855	495.3855	7.7700e-003		495.5798
Total	**0.1970**	**0.4141**	**1.4147**	**6.4200e-003**	**0.7083**	**3.5000e-003**	**0.7118**	**0.1885**	**3.2500e-003**	**0.1918**		**649.2483**	**649.2483**	**0.0150**		**649.6242**

3.7 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	lb/day										lb/day					
Off-Road	0.4576	4.2908	7.2890	0.0114		0.2093	0.2093		0.1925	0.1925		1,103.3726	1,103.3726	0.3569		1,112.2939
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4576**	**4.2908**	**7.2890**	**0.0114**		**0.2093**	**0.2093**		**0.1925**	**0.1925**		**1,103.3726**	**1,103.3726**	**0.3569**		**1,112.2939**

3.7 Paving - 2028

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	lb/day										lb/day					
Hauling	0.0312	1.1522	0.2566	7.0000e-003	2.6869	2.2600e-003	2.6891	0.6645	2.1600e-003	0.6667		745.4749	745.4749	0.0332		746.3056
Vendor	3.0100e-003	0.1254	0.0235	4.9000e-004	0.0128	1.3000e-004	0.0129	3.6900e-003	1.2000e-004	3.8100e-003		51.3723	51.3723	2.4900e-003		51.4346
Worker	0.0504	0.0225	0.3600	1.3200e-003	0.1788	8.3000e-004	0.1797	0.0474	7.6000e-004	0.0482		132.1028	132.1028	2.0700e-003		132.1546
Total	**0.0846**	**1.3000**	**0.6401**	**8.8100e-003**	**2.8785**	**3.2200e-003**	**2.8817**	**0.7156**	**3.0400e-003**	**0.7187**		**928.9499**	**928.9499**	**0.0378**		**929.8948**

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	lb/day										lb/day					
Off-Road	0.4576	4.2908	7.2890	0.0114		0.2093	0.2093		0.1925	0.1925	0.0000	1,103.3726	1,103.3726	0.3569		1,112.2939
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4576**	**4.2908**	**7.2890**	**0.0114**		**0.2093**	**0.2093**		**0.1925**	**0.1925**	**0.0000**	**1,103.3726**	**1,103.3726**	**0.3569**		**1,112.2939**

3.7 Paving - 2028

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	lb/day										lb/day					
Hauling	0.0312	1.1522	0.2566	7.0000e-003	2.6869	2.2600e-003	2.6891	0.6645	2.1600e-003	0.6667		745.4749	745.4749	0.0332		746.3056
Vendor	3.0100e-003	0.1254	0.0235	4.9000e-004	0.0128	1.3000e-004	0.0129	3.6900e-003	1.2000e-004	3.8100e-003		51.3723	51.3723	2.4900e-003		51.4346
Worker	0.0504	0.0225	0.3600	1.3200e-003	0.1788	8.3000e-004	0.1797	0.0474	7.6000e-004	0.0482		132.1028	132.1028	2.0700e-003		132.1546
Total	**0.0846**	**1.3000**	**0.6401**	**8.8100e-003**	**2.8785**	**3.2200e-003**	**2.8817**	**0.7156**	**3.0400e-003**	**0.7187**		**928.9499**	**928.9499**	**0.0378**		**929.8948**

3.7 Paving - 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	lb/day										lb/day					
Off-Road	0.4576	4.2908	7.2890	0.0114		0.2093	0.2093		0.1925	0.1925		1,103.3726	1,103.3726	0.3569		1,112.2939
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4576**	**4.2908**	**7.2890**	**0.0114**		**0.2093**	**0.2093**		**0.1925**	**0.1925**		**1,103.3726**	**1,103.3726**	**0.3569**		**1,112.2939**

3.7 Paving - 2029

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	lb/day										lb/day					
Hauling	0.0310	1.1377	0.2582	6.9800e-003	0.1818	2.2300e-003	0.1840	0.0496	2.1400e-003	0.0518		742.7912	742.7912	0.0327		743.6074
Vendor	2.9600e-003	0.1244	0.0231	4.8000e-004	0.0128	1.2000e-004	0.0129	3.6900e-003	1.2000e-004	3.8000e-003		51.1716	51.1716	2.4300e-003		51.2322
Worker	0.0473	0.0207	0.3388	1.2900e-003	0.1788	7.7000e-004	0.1796	0.0474	7.1000e-004	0.0481		128.5480	128.5480	1.9000e-003		128.5955
Total	**0.0813**	**1.2828**	**0.6201**	**8.7500e-003**	**0.3734**	**3.1200e-003**	**0.3766**	**0.1008**	**2.9700e-003**	**0.1037**		**922.5107**	**922.5107**	**0.0370**		**923.4351**

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	lb/day										lb/day					
Off-Road	0.4576	4.2908	7.2890	0.0114		0.2093	0.2093		0.1925	0.1925	0.0000	1,103.3726	1,103.3726	0.3569		1,112.2939
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4576**	**4.2908**	**7.2890**	**0.0114**		**0.2093**	**0.2093**		**0.1925**	**0.1925**	**0.0000**	**1,103.3726**	**1,103.3726**	**0.3569**		**1,112.2939**

3.7 Paving - 2029

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	lb/day										lb/day					
Hauling	0.0310	1.1377	0.2582	6.9800e-003	0.1818	2.2300e-003	0.1840	0.0496	2.1400e-003	0.0518		742.7912	742.7912	0.0327		743.6074
Vendor	2.9600e-003	0.1244	0.0231	4.8000e-004	0.0128	1.2000e-004	0.0129	3.6900e-003	1.2000e-004	3.8000e-003		51.1716	51.1716	2.4300e-003		51.2322
Worker	0.0473	0.0207	0.3388	1.2900e-003	0.1788	7.7000e-004	0.1796	0.0474	7.1000e-004	0.0481		128.5480	128.5480	1.9000e-003		128.5955
Total	**0.0813**	**1.2828**	**0.6201**	**8.7500e-003**	**0.3734**	**3.1200e-003**	**0.3766**	**0.1008**	**2.9700e-003**	**0.1037**		**922.5107**	**922.5107**	**0.0370**		**923.4351**

3.8 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	32.8555					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	**33.1973**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.6637**

3.8 Architectural Coating - 2029

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	lb/day										lb/day					
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
Vendor	2.9600e-003	0.1244	0.0231	4.8000e-004	0.0128	1.2000e-004	0.0129	3.6900e-003	1.2000e-004	3.8000e-003		51.1716	51.1716	2.4300e-003		51.2322
Worker	0.0828	0.0363	0.5928	2.2500e-003	0.3130	1.3400e-003	0.3143	0.0830	1.2400e-003	0.0842		224.9590	224.9590	3.3300e-003		225.0422
Total	**0.0858**	**0.1607**	**0.6160**	**2.7300e-003**	**0.3258**	**1.4600e-003**	**0.3273**	**0.0867**	**1.3600e-003**	**0.0880**		**276.1305**	**276.1305**	**5.7600e-003**		**276.2744**

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	lb/day										lb/day					
Archit. Coating	32.8555					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637
Total	**33.1973**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.6637**

3.8 Architectural Coating - 2029

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	lb/day										lb/day					
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
Vendor	2.9600e-003	0.1244	0.0231	4.8000e-004	0.0128	1.2000e-004	0.0129	3.6900e-003	1.2000e-004	3.8000e-003		51.1716	51.1716	2.4300e-003		51.2322
Worker	0.0828	0.0363	0.5928	2.2500e-003	0.3130	1.3400e-003	0.3143	0.0830	1.2400e-003	0.0842		224.9590	224.9590	3.3300e-003		225.0422
Total	**0.0858**	**0.1607**	**0.6160**	**2.7300e-003**	**0.3258**	**1.4600e-003**	**0.3273**	**0.0867**	**1.3600e-003**	**0.0880**		**276.1305**	**276.1305**	**5.7600e-003**		**276.2744**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Limit Parking Supply

Implement Trip Reduction Program

Market Commute Trip Reduction Option

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.7676	43.2191	31.6710	0.1668	10.7929	0.0758	10.8687	2.8855	0.0704	2.9559		17,241.1756	17,241.1756	1.0790		17,268.1499
Unmitigated	5.9189	44.0091	36.2698	0.1927	13.4911	0.0880	13.5791	3.6069	0.0818	3.6887		19,887.9269	19,887.9269	1.1410		19,916.4527

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Light Industry	0.00	0.00	0.00		
Hospital	4,074.00	3,137.16	2745.79	3,478,457	2,782,766
Medical Office Building	2,262.00	560.96	97.04	1,931,338	1,545,070
Total	6,336.00	3,698.13	2,842.83	5,409,795	4,327,836

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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Hospital	0.00	2.55	0.00	0.00	100.00	0.00	100	0	0
Medical Office Building	0.00	3.10	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
General Light Industry	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Hospital	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Medical Office Building	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.4043	12.7666	10.7239	0.0766		0.9703	0.9703		0.9703	0.9703		15,319.9033	15,319.9033	0.2936	0.2809	15,410.9418
NaturalGas Unmitigated	2.0062	18.2380	15.3199	0.1094		1.3861	1.3861		1.3861	1.3861		21,885.5762	21,885.5762	0.4195	0.4012	22,015.6312

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	lb/day										lb/day					
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
General Light Industry	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
Hospital	186027	2.0062	18.2380	15.3199	0.1094		1.3861	1.3861		1.3861	1.3861		21,885.5762	21,885.5762	0.4195	0.4012	22,015.6312
Medical Office Building	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
Total		**2.0062**	**18.2380**	**15.3199**	**0.1094**		**1.3861**	**1.3861**		**1.3861**	**1.3861**		**21,885.5762**	**21,885.5762**	**0.4195**	**0.4012**	**22,015.6312**

5.2 Energy by Land Use - NaturalGas

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	lb/day										lb/day					
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
General Light Industry	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
Hospital	130.219	1.4043	12.7666	10.7239	0.0766		0.9703	0.9703		0.9703	0.9703		15,319.9033	15,319.9033	0.2936	0.2809	15,410.9418
Medical Office Building	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
Total		**1.4043**	**12.7666**	**10.7239**	**0.0766**		**0.9703**	**0.9703**		**0.9703**	**0.9703**		**15,319.9033**	**15,319.9033**	**0.2936**	**0.2809**	**15,410.9418**

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	lb/day										lb/day					
Mitigated	9.8755	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249
Unmitigated	9.8755	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249

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	lb/day										lb/day					
Architectural Coating	0.6301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.2244					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0209	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249
Total	**9.8755**	**2.0600e-003**	**0.2289**	**2.0000e-005**		**8.1000e-004**	**8.1000e-004**		**8.1000e-004**	**8.1000e-004**		**0.4931**	**0.4931**	**1.2700e-003**		**0.5249**

6.2 Area by SubCategory

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	lb/day										lb/day					
Architectural Coating	0.6301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.2244					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0209	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249
Total	**9.8755**	**2.0600e-003**	**0.2289**	**2.0000e-005**		**8.1000e-004**	**8.1000e-004**		**8.1000e-004**	**8.1000e-004**		**0.4931**	**0.4931**	**1.2700e-003**		**0.5249**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Kaiser Moreno Valley - Phase II

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	380.00	1000sqft	8.72	380,000.00	0
Medical Office Building	65.00	1000sqft	1.49	65,000.00	0
General Light Industry	8.00	1000sqft	0.18	8,000.00	0
Enclosed Parking with Elevator	400.00	Space	3.60	160,000.00	0
Enclosed Parking with Elevator	1,400.00	Space	12.60	560,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	353.87	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - In accordance with SB 100 RPS goal of 60% by 2030.

Land Use - Based on project description.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - Based on applicant provided information. Grading is balanced onsite.

On-road Fugitive Dust - CalEEMod defaults.

Grading - CalEEMod defaults.

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Based on trip gen for Phase II.

Road Dust - CalEEMod defaults.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - Based on applicant provided information.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - water 3x daily and vehicle speed limit of 15 mph on unpaved roads.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation - All LED lighting. Assumes compliance with 2019 Title 24.

Water Mitigation -

Waste Mitigation - In accordance with AB 939.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	LightingElect	4.52	0.00
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24E	5.56	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	NT24NG	6.03	0.00
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	2.20	0.00
tblEnergyUse	T24E	8.35	11.60
tblEnergyUse	T24E	3.07	0.00
tblEnergyUse	T24NG	15.36	0.00
tblEnergyUse	T24NG	69.49	178.68
tblEnergyUse	T24NG	3.47	0.00
tblGrading	AcresOfGrading	70.00	112.50
tblGrading	AcresOfGrading	25.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	0.50
tblTripsAndVMT	HaulingTripNumber	0.00	300.00
tblTripsAndVMT	HaulingTripNumber	0.00	200.00

tblTripsAndVMT	HaulingTripNumber	0.00	1,300.00
tblTripsAndVMT	HaulingTripNumber	0.00	320.00
tblTripsAndVMT	HaulingTripNumber	0.00	96.00
tblTripsAndVMT	HaulingTripNumber	0.00	400.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	192.00	44.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	8.00	40.00
tblTripsAndVMT	WorkerTripNumber	8.00	40.00
tblTripsAndVMT	WorkerTripNumber	15.00	28.00
tblTripsAndVMT	WorkerTripNumber	448.00	200.00
tblTripsAndVMT	WorkerTripNumber	10.00	60.00
tblTripsAndVMT	WorkerTripNumber	8.00	16.00
tblTripsAndVMT	WorkerTripNumber	90.00	28.00
tblVehicleTrips	CC_TL	8.40	2.55
tblVehicleTrips	CC_TL	8.40	3.10
tblVehicleTrips	CC_TTP	16.10	100.00
tblVehicleTrips	CC_TTP	51.40	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00

tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	64.90	0.00
tblVehicleTrips	CW_TTP	29.60	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	DV_TP	30.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	10.00	0.00
tblVehicleTrips	PR_TP	73.00	100.00
tblVehicleTrips	PR_TP	60.00	100.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	10.18	8.26
tblVehicleTrips	ST_TR	8.96	8.63
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	8.91	7.23
tblVehicleTrips	SU_TR	1.55	1.49
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	13.22	10.72
tblVehicleTrips	WD_TR	36.13	34.80

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2026	3.2762	23.4283	31.4377	0.0711	2.5549	0.7446	3.2995	0.6835	0.7124	1.3959	0.0000	6,775.8442	6,775.8442	0.9405	0.0000	6,799.3575
2027	3.2398	23.3695	31.1583	0.0706	2.5362	0.7439	3.2801	0.6789	0.7118	1.3907	0.0000	6,717.5898	6,717.5898	0.9364	0.0000	6,740.9991
2028	3.2035	23.3195	30.9166	0.0700	2.8785	0.7431	3.2989	0.7156	0.7110	1.3947	0.0000	6,667.1191	6,667.1191	0.9325	0.0000	6,690.4325
2029	33.2834	5.5622	7.8735	0.0198	0.3734	0.2124	0.5859	0.1008	0.1955	0.2963	0.0000	1,992.8902	1,992.8902	0.3963	0.0000	2,002.7979
Maximum	**33.2834**	**23.4283**	**31.4377**	**0.0711**	**2.8785**	**0.7446**	**3.2995**	**0.7156**	**0.7124**	**1.3959**	**0.0000**	**6,775.8442**	**6,775.8442**	**0.9405**	**0.0000**	**6,799.3575**

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2026	3.2762	23.4283	31.4377	0.0711	2.5549	0.7446	3.2995	0.6835	0.7124	1.3959	0.0000	6,775.8442	6,775.8442	0.9405	0.0000	6,799.3574
2027	3.2398	23.3695	31.1583	0.0706	2.5362	0.7439	3.2801	0.6789	0.7118	1.3907	0.0000	6,717.5898	6,717.5898	0.9364	0.0000	6,740.9991
2028	3.2035	23.3195	30.9166	0.0700	2.8785	0.7431	3.2989	0.7156	0.7110	1.3947	0.0000	6,667.1191	6,667.1191	0.9325	0.0000	6,690.4325
2029	33.2834	5.5622	7.8735	0.0198	0.3734	0.2124	0.5859	0.1008	0.1955	0.2963	0.0000	1,992.8902	1,992.8902	0.3963	0.0000	2,002.7979
Maximum	**33.2834**	**23.4283**	**31.4377**	**0.0711**	**2.8785**	**0.7446**	**3.2995**	**0.7156**	**0.7124**	**1.3959**	**0.0000**	**6,775.8442**	**6,775.8442**	**0.9405**	**0.0000**	**6,799.3574**

	ROG	NOx	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**	**0.00**	**0.00**

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	lb/day										lb/day					
Area	9.8755	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249
Energy	2.0062	18.2380	15.3199	0.1094		1.3861	1.3861		1.3861	1.3861		21,885.5762	21,885.5762	0.4195	0.4012	22,015.6312
Mobile	4.7753	43.0160	34.6201	0.1765	13.4911	0.0891	13.5802	3.6069	0.0829	3.6897		18,221.1028	18,221.1028	1.2403		18,252.1099
Total	**16.6569**	**61.2560**	**50.1688**	**0.2859**	**13.4911**	**1.4760**	**14.9671**	**3.6069**	**1.4698**	**5.0766**		**40,107.1720**	**40,107.1720**	**1.6610**	**0.4012**	**40,268.2659**

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	lb/day										lb/day					
Area	9.8755	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249
Energy	1.4043	12.7666	10.7239	0.0766		0.9703	0.9703		0.9703	0.9703		15,319.9033	15,319.9033	0.2936	0.2809	15,410.9418
Mobile	4.6313	42.1862	30.9206	0.1523	10.7929	0.0769	10.8698	2.8855	0.0715	2.9570		15,748.0500	15,748.0500	1.1812		15,777.5808
Total	**15.9111**	**54.9548**	**41.8734**	**0.2290**	**10.7929**	**1.0480**	**11.8408**	**2.8855**	**1.0425**	**3.9280**		**31,068.4464**	**31,068.4464**	**1.4761**	**0.2809**	**31,189.0475**

	ROG	NOx	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	**4.48**	**10.29**	**16.54**	**19.93**	**20.00**	**29.00**	**20.89**	**20.00**	**29.07**	**22.63**	**0.00**	**22.54**	**22.54**	**11.13**	**30.00**	**22.55**

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	1/1/2026	1/28/2026	5	20	
2	Site Preparation	Site Preparation	1/29/2026	4/8/2026	5	50	
3	Grading	Grading	4/9/2026	7/15/2026	5	70	
4	Building Construction	Building Construction	7/16/2026	6/14/2028	5	500	
5	Trenching	Trenching	6/15/2028	12/27/2028	5	140	
6	Paving	Paving	12/28/2028	2/21/2029	5	40	
7	Architectural Coating	Architectural Coating	2/22/2029	5/30/2029	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 16.2

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 679,500; Non-Residential Outdoor: 226,500; Striped Parking Area: 43,200 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crawler Tractors	1	8.00	212	0.43
Demolition	Excavators	0	8.00	158	0.38

Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Other Construction Equipment	1	8.00	172	0.42
Building Construction	Rough Terrain Forklifts	2	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	6	8.00	46	0.45
Trenching	Excavators	1	8.00	158	0.38
Trenching	Rollers	1	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Architectural Coating	Air Compressors	2	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	3	40.00	4.00	300.00	14.70	6.90	40.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	40.00	4.00	200.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	28.00	4.00	1,300.00	14.70	6.90	0.50	LD_Mix	HDT_Mix	HHDT
Building Construction	13	200.00	44.00	320.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	60.00	4.00	96.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	16.00	2.00	400.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	28.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 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	lb/day										lb/day					
Off-Road	0.7344	7.1515	5.8050	0.0172		0.2710	0.2710		0.2493	0.2493		1,665.9461	1,665.9461	0.5388		1,679.4161
Total	**0.7344**	**7.1515**	**5.8050**	**0.0172**		**0.2710**	**0.2710**		**0.2493**	**0.2493**		**1,665.9461**	**1,665.9461**	**0.5388**		**1,679.4161**

3.2 Demolition - 2026

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	lb/day										lb/day					
Hauling	0.0796	2.3364	0.7068	0.0190	0.5243	6.8400e-003	0.5311	0.1437	6.5500e-003	0.1502		2,017.3529	2,017.3529	0.0777		2,019.2941
Vendor	6.6100e-003	0.2520	0.0570	9.5000e-004	0.0256	2.6000e-004	0.0259	7.3700e-003	2.5000e-004	7.6200e-003		99.9736	99.9736	5.8400e-003		100.1196
Worker	0.1400	0.0685	0.8189	3.1700e-003	0.4471	2.3600e-003	0.4495	0.1186	2.1700e-003	0.1207		315.8644	315.8644	5.3800e-003		315.9990
Total	**0.2262**	**2.6568**	**1.5827**	**0.0231**	**0.9970**	**9.4600e-003**	**1.0064**	**0.2696**	**8.9700e-003**	**0.2786**		**2,433.1908**	**2,433.1908**	**0.0889**		**2,435.4126**

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	lb/day										lb/day					
Off-Road	0.7344	7.1515	5.8050	0.0172		0.2710	0.2710		0.2493	0.2493	0.0000	1,665.9461	1,665.9461	0.5388		1,679.4161
Total	**0.7344**	**7.1515**	**5.8050**	**0.0172**		**0.2710**	**0.2710**		**0.2493**	**0.2493**	**0.0000**	**1,665.9461**	**1,665.9461**	**0.5388**		**1,679.4161**

3.2 Demolition - 2026

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	lb/day										lb/day					
Hauling	0.0796	2.3364	0.7068	0.0190	0.5243	6.8400e-003	0.5311	0.1437	6.5500e-003	0.1502		2,017.3529	2,017.3529	0.0777		2,019.2941
Vendor	6.6100e-003	0.2520	0.0570	9.5000e-004	0.0256	2.6000e-004	0.0259	7.3700e-003	2.5000e-004	7.6200e-003		99.9736	99.9736	5.8400e-003		100.1196
Worker	0.1400	0.0685	0.8189	3.1700e-003	0.4471	2.3600e-003	0.4495	0.1186	2.1700e-003	0.1207		315.8644	315.8644	5.3800e-003		315.9990
Total	**0.2262**	**2.6568**	**1.5827**	**0.0231**	**0.9970**	**9.4600e-003**	**1.0064**	**0.2696**	**8.9700e-003**	**0.2786**		**2,433.1908**	**2,433.1908**	**0.0889**		**2,435.4126**

3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5754	6.1269	6.0534	0.0129		0.2194	0.2194		0.2019	0.2019		1,244.3513	1,244.3513	0.4025		1,254.4125
Total	**0.5754**	**6.1269**	**6.0534**	**0.0129**	**0.0000**	**0.2194**	**0.2194**	**0.0000**	**0.2019**	**0.2019**		**1,244.3513**	**1,244.3513**	**0.4025**		**1,254.4125**

3.3 Site Preparation - 2026

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	lb/day										lb/day					
Hauling	0.0133	0.4718	0.1131	2.7600e-003	0.0699	9.4000e-004	0.0709	0.0192	9.0000e-004	0.0201		293.5028	293.5028	0.0149		293.8748
Vendor	6.6100e-003	0.2520	0.0570	9.5000e-004	0.0256	2.6000e-004	0.0259	7.3700e-003	2.5000e-004	7.6200e-003		99.9736	99.9736	5.8400e-003		100.1196
Worker	0.1400	0.0685	0.8189	3.1700e-003	0.4471	2.3600e-003	0.4495	0.1186	2.1700e-003	0.1207		315.8644	315.8644	5.3800e-003		315.9990
Total	**0.1599**	**0.7922**	**0.9890**	**6.8800e-003**	**0.5427**	**3.5600e-003**	**0.5462**	**0.1451**	**3.3200e-003**	**0.1484**		**709.3408**	**709.3408**	**0.0261**		**709.9933**

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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5754	6.1269	6.0534	0.0129		0.2194	0.2194		0.2019	0.2019	0.0000	1,244.3513	1,244.3513	0.4025		1,254.4125
Total	**0.5754**	**6.1269**	**6.0534**	**0.0129**	**0.0000**	**0.2194**	**0.2194**	**0.0000**	**0.2019**	**0.2019**	**0.0000**	**1,244.3513**	**1,244.3513**	**0.4025**		**1,254.4125**

3.3 Site Preparation - 2026

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	lb/day										lb/day					
Hauling	0.0133	0.4718	0.1131	2.7600e-003	0.0699	9.4000e-004	0.0709	0.0192	9.0000e-004	0.0201		293.5028	293.5028	0.0149		293.8748
Vendor	6.6100e-003	0.2520	0.0570	9.5000e-004	0.0256	2.6000e-004	0.0259	7.3700e-003	2.5000e-004	7.6200e-003		99.9736	99.9736	5.8400e-003		100.1196
Worker	0.1400	0.0685	0.8189	3.1700e-003	0.4471	2.3600e-003	0.4495	0.1186	2.1700e-003	0.1207		315.8644	315.8644	5.3800e-003		315.9990
Total	**0.1599**	**0.7922**	**0.9890**	**6.8800e-003**	**0.5427**	**3.5600e-003**	**0.5462**	**0.1451**	**3.3200e-003**	**0.1484**		**709.3408**	**709.3408**	**0.0261**		**709.9933**

3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					1.7044	0.0000	1.7044	0.1840	0.0000	0.1840			0.0000			0.0000
Off-Road	1.1905	12.2482	12.7536	0.0273		0.4632	0.4632		0.4261	0.4261		2,638.9908	2,638.9908	0.8535		2,660.3283
Total	**1.1905**	**12.2482**	**12.7536**	**0.0273**	**1.7044**	**0.4632**	**2.1675**	**0.1840**	**0.4261**	**0.6101**		**2,638.9908**	**2,638.9908**	**0.8535**		**2,660.3283**

3.4 Grading - 2026

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	lb/day										lb/day					
Hauling	0.0259	1.5055	0.1836	2.4100e-003	8.5000e-003	3.2000e-004	8.8300e-003	2.3600e-003	3.1000e-004	2.6800e-003		256.0831	256.0831	0.0427		257.1506
Vendor	6.6100e-003	0.2520	0.0570	9.5000e-004	0.0256	2.6000e-004	0.0259	7.3700e-003	2.5000e-004	7.6200e-003		99.9736	99.9736	5.8400e-003		100.1196
Worker	0.0980	0.0479	0.5732	2.2200e-003	0.3130	1.6500e-003	0.3146	0.0830	1.5200e-003	0.0845		221.1051	221.1051	3.7700e-003		221.1993
Total	**0.1304**	**1.8054**	**0.8138**	**5.5800e-003**	**0.3471**	**2.2300e-003**	**0.3493**	**0.0927**	**2.0800e-003**	**0.0948**		**577.1617**	**577.1617**	**0.0523**		**578.4694**

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	lb/day										lb/day					
Fugitive Dust					0.6647	0.0000	0.6647	0.0718	0.0000	0.0718			0.0000			0.0000
Off-Road	1.1905	12.2482	12.7536	0.0273		0.4632	0.4632		0.4261	0.4261	0.0000	2,638.9908	2,638.9908	0.8535		2,660.3283
Total	**1.1905**	**12.2482**	**12.7536**	**0.0273**	**0.6647**	**0.4632**	**1.1279**	**0.0718**	**0.4261**	**0.4979**	**0.0000**	**2,638.9908**	**2,638.9908**	**0.8535**		**2,660.3283**

3.4 Grading - 2026

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	lb/day										lb/day					
Hauling	0.0259	1.5055	0.1836	2.4100e-003	8.5000e-003	3.2000e-004	8.8300e-003	2.3600e-003	3.1000e-004	2.6800e-003		256.0831	256.0831	0.0427		257.1506
Vendor	6.6100e-003	0.2520	0.0570	9.5000e-004	0.0256	2.6000e-004	0.0259	7.3700e-003	2.5000e-004	7.6200e-003		99.9736	99.9736	5.8400e-003		100.1196
Worker	0.0980	0.0479	0.5732	2.2200e-003	0.3130	1.6500e-003	0.3146	0.0830	1.5200e-003	0.0845		221.1051	221.1051	3.7700e-003		221.1993
Total	**0.1304**	**1.8054**	**0.8138**	**5.5800e-003**	**0.3471**	**2.2300e-003**	**0.3493**	**0.0927**	**2.0800e-003**	**0.0948**		**577.1617**	**577.1617**	**0.0523**		**578.4694**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986		4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**		**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2026

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	lb/day										lb/day					
Hauling	2.1300e-003	0.0755	0.0181	4.4000e-004	0.0377	1.5000e-004	0.0378	9.5700e-003	1.4000e-004	9.7200e-003		46.9605	46.9605	2.3800e-003		47.0200
Vendor	0.0728	2.7719	0.6272	0.0104	0.2817	2.9000e-003	0.2846	0.0811	2.7700e-003	0.0839		1,099.7094	1,099.7094	0.0642		1,101.3152
Worker	0.6999	0.3424	4.0944	0.0158	2.2355	0.0118	2.2473	0.5929	0.0109	0.6037		1,579.3218	1,579.3218	0.0269		1,579.9948
Total	**0.7748**	**3.1898**	**4.7397**	**0.0267**	**2.5549**	**0.0148**	**2.5698**	**0.6835**	**0.0138**	**0.6973**		**2,725.9916**	**2,725.9916**	**0.0935**		**2,728.3300**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986	0.0000	4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**	**0.0000**	**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2026

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	lb/day										lb/day					
Hauling	2.1300e-003	0.0755	0.0181	4.4000e-004	0.0377	1.5000e-004	0.0378	9.5700e-003	1.4000e-004	9.7200e-003		46.9605	46.9605	2.3800e-003		47.0200
Vendor	0.0728	2.7719	0.6272	0.0104	0.2817	2.9000e-003	0.2846	0.0811	2.7700e-003	0.0839		1,099.7094	1,099.7094	0.0642		1,101.3152
Worker	0.6999	0.3424	4.0944	0.0158	2.2355	0.0118	2.2473	0.5929	0.0109	0.6037		1,579.3218	1,579.3218	0.0269		1,579.9948
Total	**0.7748**	**3.1898**	**4.7397**	**0.0267**	**2.5549**	**0.0148**	**2.5698**	**0.6835**	**0.0138**	**0.6973**		**2,725.9916**	**2,725.9916**	**0.0935**		**2,728.3300**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986		4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**		**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2027

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	lb/day										lb/day					
Hauling	2.1100e-003	0.0741	0.0182	4.4000e-004	0.0189	1.5000e-004	0.0191	4.9700e-003	1.4000e-004	5.1100e-003		46.7344	46.7344	2.3400e-003		46.7928
Vendor	0.0714	2.7424	0.6131	0.0104	0.2817	2.8500e-003	0.2845	0.0811	2.7300e-003	0.0838		1,094.0411	1,094.0411	0.0624		1,095.6021
Worker	0.6649	0.3145	3.8290	0.0153	2.2355	0.0112	2.2467	0.5929	0.0103	0.6031		1,526.9618	1,526.9618	0.0246		1,527.5767
Total	**0.7384**	**3.1310**	**4.4603**	**0.0261**	**2.5362**	**0.0142**	**2.5503**	**0.6789**	**0.0131**	**0.6921**		**2,667.7373**	**2,667.7373**	**0.0894**		**2,669.9716**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986	0.0000	4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**	**0.0000**	**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2027

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	lb/day										lb/day					
Hauling	2.1100e-003	0.0741	0.0182	4.4000e-004	0.0189	1.5000e-004	0.0191	4.9700e-003	1.4000e-004	5.1100e-003		46.7344	46.7344	2.3400e-003		46.7928
Vendor	0.0714	2.7424	0.6131	0.0104	0.2817	2.8500e-003	0.2845	0.0811	2.7300e-003	0.0838		1,094.0411	1,094.0411	0.0624		1,095.6021
Worker	0.6649	0.3145	3.8290	0.0153	2.2355	0.0112	2.2467	0.5929	0.0103	0.6031		1,526.9618	1,526.9618	0.0246		1,527.5767
Total	**0.7384**	**3.1310**	**4.4603**	**0.0261**	**2.5362**	**0.0142**	**2.5503**	**0.6789**	**0.0131**	**0.6921**		**2,667.7373**	**2,667.7373**	**0.0894**		**2,669.9716**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986		4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**		**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2028

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	lb/day										lb/day					
Hauling	2.1000e-003	0.0731	0.0183	4.4000e-004	0.0386	1.5000e-004	0.0387	9.7900e-003	1.4000e-004	9.9300e-003		46.5549	46.5549	2.2900e-003		46.6122
Vendor	0.0703	2.7182	0.6029	0.0103	0.2817	2.8200e-003	0.2845	0.0811	2.7000e-003	0.0838		1,089.4549	1,089.4549	0.0607		1,090.9711
Worker	0.6298	0.2898	3.5974	0.0148	2.2355	0.0104	2.2459	0.5929	9.5200e-003	0.6024		1,481.2568	1,481.2568	0.0226		1,481.8217
Total	**0.7021**	**3.0810**	**4.2186**	**0.0256**	**2.5558**	**0.0133**	**2.5691**	**0.6838**	**0.0124**	**0.6961**		**2,617.2666**	**2,617.2666**	**0.0855**		**2,619.4050**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986	0.0000	4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**	**0.0000**	**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2028

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	lb/day										lb/day					
Hauling	2.1000e-003	0.0731	0.0183	4.4000e-004	0.0386	1.5000e-004	0.0387	9.7900e-003	1.4000e-004	9.9300e-003		46.5549	46.5549	2.2900e-003		46.6122
Vendor	0.0703	2.7182	0.6029	0.0103	0.2817	2.8200e-003	0.2845	0.0811	2.7000e-003	0.0838		1,089.4549	1,089.4549	0.0607		1,090.9711
Worker	0.6298	0.2898	3.5974	0.0148	2.2355	0.0104	2.2459	0.5929	9.5200e-003	0.6024		1,481.2568	1,481.2568	0.0226		1,481.8217
Total	**0.7021**	**3.0810**	**4.2186**	**0.0256**	**2.5558**	**0.0133**	**2.5691**	**0.6838**	**0.0124**	**0.6961**		**2,617.2666**	**2,617.2666**	**0.0855**		**2,619.4050**

3.6 Trenching - 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	lb/day										lb/day					
Off-Road	0.5683	5.3349	9.5654	0.0140		0.2407	0.2407		0.2214	0.2214		1,358.5115	1,358.5115	0.4394		1,369.4958
Total	**0.5683**	**5.3349**	**9.5654**	**0.0140**		**0.2407**	**0.2407**		**0.2214**	**0.2214**		**1,358.5115**	**1,358.5115**	**0.4394**		**1,369.4958**

3.6 Trenching - 2028

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	lb/day										lb/day					
Hauling	2.2500e-003	0.0783	0.0196	4.7000e-004	0.0120	1.6000e-004	0.0122	3.2900e-003	1.5000e-004	3.4400e-003		49.8803	49.8803	2.4500e-003		49.9416
Vendor	6.3900e-003	0.2471	0.0548	9.4000e-004	0.0256	2.6000e-004	0.0259	7.3700e-003	2.5000e-004	7.6200e-003		99.0414	99.0414	5.5100e-003		99.1792
Worker	0.1889	0.0869	1.0792	4.4500e-003	0.6707	3.1000e-003	0.6738	0.1779	2.8600e-003	0.1807		444.3770	444.3770	6.7800e-003		444.5465
Total	**0.1976**	**0.4124**	**1.1536**	**5.8600e-003**	**0.7083**	**3.5200e-003**	**0.7118**	**0.1885**	**3.2600e-003**	**0.1918**		**593.2987**	**593.2987**	**0.0147**		**593.6673**

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	lb/day										lb/day					
Off-Road	0.5683	5.3349	9.5654	0.0140		0.2407	0.2407		0.2214	0.2214	0.0000	1,358.5115	1,358.5115	0.4394		1,369.4958
Total	**0.5683**	**5.3349**	**9.5654**	**0.0140**		**0.2407**	**0.2407**		**0.2214**	**0.2214**	**0.0000**	**1,358.5115**	**1,358.5115**	**0.4394**		**1,369.4958**

3.6 Trenching - 2028

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	lb/day										lb/day					
Hauling	2.2500e-003	0.0783	0.0196	4.7000e-004	0.0120	1.6000e-004	0.0122	3.2900e-003	1.5000e-004	3.4400e-003		49.8803	49.8803	2.4500e-003		49.9416
Vendor	6.3900e-003	0.2471	0.0548	9.4000e-004	0.0256	2.6000e-004	0.0259	7.3700e-003	2.5000e-004	7.6200e-003		99.0414	99.0414	5.5100e-003		99.1792
Worker	0.1889	0.0869	1.0792	4.4500e-003	0.6707	3.1000e-003	0.6738	0.1779	2.8600e-003	0.1807		444.3770	444.3770	6.7800e-003		444.5465
Total	**0.1976**	**0.4124**	**1.1536**	**5.8600e-003**	**0.7083**	**3.5200e-003**	**0.7118**	**0.1885**	**3.2600e-003**	**0.1918**		**593.2987**	**593.2987**	**0.0147**		**593.6673**

3.7 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	lb/day										lb/day					
Off-Road	0.4576	4.2908	7.2890	0.0114		0.2093	0.2093		0.1925	0.1925		1,103.3726	1,103.3726	0.3569		1,112.2939
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4576**	**4.2908**	**7.2890**	**0.0114**		**0.2093**	**0.2093**		**0.1925**	**0.1925**		**1,103.3726**	**1,103.3726**	**0.3569**		**1,112.2939**

3.7 Paving - 2028

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	lb/day										lb/day					
Hauling	0.0328	1.1423	0.2857	6.8300e-003	2.6869	2.2900e-003	2.6891	0.6645	2.1900e-003	0.6667		727.4209	727.4209	0.0358		728.3156
Vendor	3.1900e-003	0.1236	0.0274	4.7000e-004	0.0128	1.3000e-004	0.0129	3.6900e-003	1.2000e-004	3.8100e-003		49.5207	49.5207	2.7600e-003		49.5896
Worker	0.0504	0.0232	0.2878	1.1900e-003	0.1788	8.3000e-004	0.1797	0.0474	7.6000e-004	0.0482		118.5005	118.5005	1.8100e-003		118.5457
Total	**0.0864**	**1.2890**	**0.6009**	**8.4900e-003**	**2.8785**	**3.2500e-003**	**2.8817**	**0.7156**	**3.0700e-003**	**0.7187**		**895.4421**	**895.4421**	**0.0404**		**896.4509**

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	lb/day										lb/day					
Off-Road	0.4576	4.2908	7.2890	0.0114		0.2093	0.2093		0.1925	0.1925	0.0000	1,103.3726	1,103.3726	0.3569		1,112.2939
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4576**	**4.2908**	**7.2890**	**0.0114**		**0.2093**	**0.2093**		**0.1925**	**0.1925**	**0.0000**	**1,103.3726**	**1,103.3726**	**0.3569**		**1,112.2939**

3.7 Paving - 2028

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	lb/day										lb/day					
Hauling	0.0328	1.1423	0.2857	6.8300e-003	2.6869	2.2900e-003	2.6891	0.6645	2.1900e-003	0.6667		727.4209	727.4209	0.0358		728.3156
Vendor	3.1900e-003	0.1236	0.0274	4.7000e-004	0.0128	1.3000e-004	0.0129	3.6900e-003	1.2000e-004	3.8100e-003		49.5207	49.5207	2.7600e-003		49.5896
Worker	0.0504	0.0232	0.2878	1.1900e-003	0.1788	8.3000e-004	0.1797	0.0474	7.6000e-004	0.0482		118.5005	118.5005	1.8100e-003		118.5457
Total	**0.0864**	**1.2890**	**0.6009**	**8.4900e-003**	**2.8785**	**3.2500e-003**	**2.8817**	**0.7156**	**3.0700e-003**	**0.7187**		**895.4421**	**895.4421**	**0.0404**		**896.4509**

3.7 Paving - 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	lb/day										lb/day					
Off-Road	0.4576	4.2908	7.2890	0.0114		0.2093	0.2093		0.1925	0.1925		1,103.3726	1,103.3726	0.3569		1,112.2939
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4576**	**4.2908**	**7.2890**	**0.0114**		**0.2093**	**0.2093**		**0.1925**	**0.1925**		**1,103.3726**	**1,103.3726**	**0.3569**		**1,112.2939**

3.7 Paving - 2029

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	lb/day										lb/day					
Hauling	0.0326	1.1275	0.2871	6.8100e-003	0.1818	2.2600e-003	0.1841	0.0496	2.1600e-003	0.0518		724.8829	724.8829	0.0351		725.7608
Vendor	3.1500e-003	0.1226	0.0270	4.7000e-004	0.0128	1.3000e-004	0.0129	3.6900e-003	1.2000e-004	3.8100e-003		49.3348	49.3348	2.6800e-003		49.4018
Worker	0.0474	0.0214	0.2704	1.1600e-003	0.1788	7.7000e-004	0.1796	0.0474	7.1000e-004	0.0481		115.3000	115.3000	1.6600e-003		115.3414
Total	**0.0832**	**1.2714**	**0.5845**	**8.4400e-003**	**0.3734**	**3.1600e-003**	**0.3766**	**0.1008**	**2.9900e-003**	**0.1037**		**889.5176**	**889.5176**	**0.0395**		**890.5040**

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	lb/day										lb/day					
Off-Road	0.4576	4.2908	7.2890	0.0114		0.2093	0.2093		0.1925	0.1925	0.0000	1,103.3726	1,103.3726	0.3569		1,112.2939
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4576**	**4.2908**	**7.2890**	**0.0114**		**0.2093**	**0.2093**		**0.1925**	**0.1925**	**0.0000**	**1,103.3726**	**1,103.3726**	**0.3569**		**1,112.2939**

3.7 Paving - 2029

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	lb/day										lb/day					
Hauling	0.0326	1.1275	0.2871	6.8100e-003	0.1818	2.2600e-003	0.1841	0.0496	2.1600e-003	0.0518		724.8829	724.8829	0.0351		725.7608
Vendor	3.1500e-003	0.1226	0.0270	4.7000e-004	0.0128	1.3000e-004	0.0129	3.6900e-003	1.2000e-004	3.8100e-003		49.3348	49.3348	2.6800e-003		49.4018
Worker	0.0474	0.0214	0.2704	1.1600e-003	0.1788	7.7000e-004	0.1796	0.0474	7.1000e-004	0.0481		115.3000	115.3000	1.6600e-003		115.3414
Total	**0.0832**	**1.2714**	**0.5845**	**8.4400e-003**	**0.3734**	**3.1600e-003**	**0.3766**	**0.1008**	**2.9900e-003**	**0.1037**		**889.5176**	**889.5176**	**0.0395**		**890.5040**

3.8 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	32.8555					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	**33.1973**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.6637**

3.8 Architectural Coating - 2029

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	lb/day										lb/day					
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
Vendor	3.1500e-003	0.1226	0.0270	4.7000e-004	0.0128	1.3000e-004	0.0129	3.6900e-003	1.2000e-004	3.8100e-003		49.3348	49.3348	2.6800e-003		49.4018
Worker	0.0830	0.0374	0.4732	2.0200e-003	0.3130	1.3400e-003	0.3143	0.0830	1.2400e-003	0.0842		201.7750	201.7750	2.9000e-003		201.8475
Total	**0.0861**	**0.1599**	**0.5002**	**2.4900e-003**	**0.3258**	**1.4700e-003**	**0.3273**	**0.0867**	**1.3600e-003**	**0.0881**		**251.1097**	**251.1097**	**5.5800e-003**		**251.2493**

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	lb/day										lb/day					
Archit. Coating	32.8555					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637
Total	**33.1973**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.6637**

3.8 Architectural Coating - 2029

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	lb/day										lb/day					
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
Vendor	3.1500e-003	0.1226	0.0270	4.7000e-004	0.0128	1.3000e-004	0.0129	3.6900e-003	1.2000e-004	3.8100e-003		49.3348	49.3348	2.6800e-003		49.4018
Worker	0.0830	0.0374	0.4732	2.0200e-003	0.3130	1.3400e-003	0.3143	0.0830	1.2400e-003	0.0842		201.7750	201.7750	2.9000e-003		201.8475
Total	**0.0861**	**0.1599**	**0.5002**	**2.4900e-003**	**0.3258**	**1.4700e-003**	**0.3273**	**0.0867**	**1.3600e-003**	**0.0881**		**251.1097**	**251.1097**	**5.5800e-003**		**251.2493**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Limit Parking Supply

Implement Trip Reduction Program

Market Commute Trip Reduction Option

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.6313	42.1862	30.9206	0.1523	10.7929	0.0769	10.8698	2.8855	0.0715	2.9570		15,748.0500	15,748.0500	1.1812		15,777.5808
Unmitigated	4.7753	43.0160	34.6201	0.1765	13.4911	0.0891	13.5802	3.6069	0.0829	3.6897		18,221.1028	18,221.1028	1.2403		18,252.1099

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Light Industry	0.00	0.00	0.00		
Hospital	4,074.00	3,137.16	2745.79	3,478,457	2,782,766
Medical Office Building	2,262.00	560.96	97.04	1,931,338	1,545,070
Total	6,336.00	3,698.13	2,842.83	5,409,795	4,327,836

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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Hospital	0.00	2.55	0.00	0.00	100.00	0.00	100	0	0
Medical Office Building	0.00	3.10	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
General Light Industry	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Hospital	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Medical Office Building	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.4043	12.7666	10.7239	0.0766		0.9703	0.9703		0.9703	0.9703		15,319.9033	15,319.9033	0.2936	0.2809	15,410.9418
NaturalGas Unmitigated	2.0062	18.2380	15.3199	0.1094		1.3861	1.3861		1.3861	1.3861		21,885.5762	21,885.5762	0.4195	0.4012	22,015.6312

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	lb/day										lb/day					
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
General Light Industry	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
Hospital	186027	2.0062	18.2380	15.3199	0.1094		1.3861	1.3861		1.3861	1.3861		21,885.5762	21,885.5762	0.4195	0.4012	22,015.6312
Medical Office Building	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
Total		**2.0062**	**18.2380**	**15.3199**	**0.1094**		**1.3861**	**1.3861**		**1.3861**	**1.3861**		**21,885.5762**	**21,885.5762**	**0.4195**	**0.4012**	**22,015.6312**

5.2 Energy by Land Use - NaturalGas

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	lb/day										lb/day					
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
General Light Industry	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
Hospital	130.219	1.4043	12.7666	10.7239	0.0766		0.9703	0.9703		0.9703	0.9703		15,319.9033	15,319.9033	0.2936	0.2809	15,410.9418
Medical Office Building	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
Total		**1.4043**	**12.7666**	**10.7239**	**0.0766**		**0.9703**	**0.9703**		**0.9703**	**0.9703**		**15,319.9033**	**15,319.9033**	**0.2936**	**0.2809**	**15,410.9418**

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	lb/day										lb/day					
Mitigated	9.8755	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249
Unmitigated	9.8755	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249

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	lb/day										lb/day					
Architectural Coating	0.6301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.2244					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0209	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249
Total	**9.8755**	**2.0600e-003**	**0.2289**	**2.0000e-005**		**8.1000e-004**	**8.1000e-004**		**8.1000e-004**	**8.1000e-004**		**0.4931**	**0.4931**	**1.2700e-003**		**0.5249**

6.2 Area by SubCategory

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	lb/day										lb/day					
Architectural Coating	0.6301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.2244					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0209	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249
Total	**9.8755**	**2.0600e-003**	**0.2289**	**2.0000e-005**		**8.1000e-004**	**8.1000e-004**		**8.1000e-004**	**8.1000e-004**		**0.4931**	**0.4931**	**1.2700e-003**		**0.5249**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Kaiser Moreno Valley - Phase III

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	375.00	1000sqft	8.61	375,000.00	0
Medical Office Building	95.00	1000sqft	2.18	95,000.00	0
Enclosed Parking with Elevator	600.00	Space	5.40	240,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2035
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	238.86	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - In accordance with SB 100 goal of 100% renewable by 2045.

Land Use - Based on project description.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.
Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - Based on applicant provided information. Grading is balanced onsite.

On-road Fugitive Dust - CalEEMod defaults.

Grading - CalEEMod defaults.

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Based on trip gen for Phase III.

Road Dust - CalEEMod defaults.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults for electricity. Natural gas based on applicant provided information.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - water 3x daily and vehicle speed limit of 15 mph on unpaved roads.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation - All LED lighting. Compliance with 2019 Title 24.

Water Mitigation -

Waste Mitigation - In accordance with AB 939.

Kaiser Moreno Valley - Phase III - Riverside-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblEnergyUse	LightingElect	3.66	0.00
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tblVehicleTrips	SU_TR	1.55	1.49
tblVehicleTrips	WD_TR	13.22	7.00
tblVehicleTrips	WD_TR	36.13	34.80

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					
2032	0.2788	1.4837	2.5466	8.9000e-003	0.3342	0.0286	0.3628	0.0831	0.0285	0.1116	0.0000	785.7244	785.7244	0.0274	0.0000	786.4105
2033	0.3218	1.7479	3.4552	9.6300e-003	0.5351	0.0287	0.5637	0.1428	0.0285	0.1713	0.0000	838.6722	838.6722	0.0267	0.0000	839.3408
2034	0.5528	1.1680	2.4258	6.4000e-003	0.3230	0.0216	0.3446	0.0862	0.0215	0.1077	0.0000	558.0136	558.0136	0.0182	0.0000	558.4688
2035	0.7899	0.0233	0.0561	1.2000e-004	4.7900e-003	2.9000e-004	5.0900e-003	1.2800e-003	2.9000e-004	1.5700e-003	0.0000	10.3157	10.3157	3.2000e-004	0.0000	10.3236
Maximum	**0.7899**	**1.7479**	**3.4552**	**9.6300e-003**	**0.5351**	**0.0287**	**0.5637**	**0.1428**	**0.0285**	**0.1713**	**0.0000**	**838.6722**	**838.6722**	**0.0274**	**0.0000**	**839.3408**

2.1 Overall Construction

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					
2032	0.1167	0.8366	3.0615	8.9000e-003	0.3099	8.5700e-003	0.3185	0.0805	8.4700e-003	0.0890	0.0000	785.7239	785.7239	0.0274	0.0000	786.4099
2033	0.1654	1.1735	3.7048	9.6300e-003	0.5351	8.7200e-003	0.5438	0.1428	8.5700e-003	0.1514	0.0000	838.6717	838.6717	0.0267	0.0000	839.3403
2034	0.4379	0.6937	2.5832	6.4000e-003	0.3230	5.9900e-003	0.3290	0.0862	5.9000e-003	0.0921	0.0000	558.0132	558.0132	0.0182	0.0000	558.4684
2035	0.7875	5.6700e-003	0.0571	1.2000e-004	4.7900e-003	1.3000e-004	4.9200e-003	1.2800e-003	1.2000e-004	1.4000e-003	0.0000	10.3157	10.3157	3.2000e-004	0.0000	10.3236
Maximum	**0.7875**	**1.1735**	**3.7048**	**9.6300e-003**	**0.5351**	**8.7200e-003**	**0.5438**	**0.1428**	**8.5700e-003**	**0.1514**	**0.0000**	**838.6717**	**838.6717**	**0.0274**	**0.0000**	**839.3403**

	ROG	NOx	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	**22.43**	**38.74**	**-10.88**	**0.00**	**2.03**	**70.42**	**6.27**	**0.84**	**70.74**	**14.88**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2032	3-31-2032	0.6175	0.2763
2	4-1-2032	6-30-2032	0.1888	0.0789
3	7-1-2032	9-30-2032	0.4256	0.2540
4	10-1-2032	12-31-2032	0.5271	0.3424
5	1-1-2033	3-31-2033	0.5126	0.3319
6	4-1-2033	6-30-2033	0.5189	0.3362
7	7-1-2033	9-30-2033	0.5246	0.3399
8	10-1-2033	12-31-2033	0.5240	0.3393

9	**1-1-2034**	**3-31-2034**	0.5100	0.3293
10	**4-1-2034**	**6-30-2034**	0.5162	0.3335
11	**7-1-2034**	**9-30-2034**	0.2091	0.0858
12	**10-1-2034**	**12-31-2034**	0.5117	0.4090
13	**1-1-2035**	**3-31-2035**	0.7884	0.7689
		Highest	0.7884	0.7689

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	1.8274	1.2000e-004	0.0136	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0266	0.0266	7.0000e-005	0.0000	0.0283
Energy	0.2707	2.4608	2.0671	0.0148		0.1870	0.1870		0.1870	0.1870	0.0000	3,031.8830	3,031.8830	0.0942	0.0580	3,051.5162
Mobile	0.5537	5.9657	4.1820	0.0249	1.9075	9.7700e-003	1.9173	0.5105	9.0900e-003	0.5196	0.0000	2,340.7522	2,340.7522	0.1333	0.0000	2,344.0848
Waste						0.0000	0.0000		0.0000	0.0000	1,030.3821	0.0000	1,030.3821	60.8938	0.0000	2,552.7281
Water						0.0000	0.0000		0.0000	0.0000	18.7103	96.7228	115.4331	1.9335	0.0478	178.0160
Total	**2.6518**	**8.4266**	**6.2626**	**0.0397**	**1.9075**	**0.1968**	**2.1043**	**0.5105**	**0.1962**	**0.7067**	**1,049.0925**	**5,469.3845**	**6,518.4769**	**63.0549**	**0.1058**	**8,126.3734**

2.2 Overall Operational

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	1.8274	1.2000e-004	0.0136	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0266	0.0266	7.0000e-005	0.0000	0.0283
Energy	0.1895	1.7226	1.4469	0.0103		0.1309	0.1309		0.1309	0.1309	0.0000	2,122.3181	2,122.3181	0.0659	0.0406	2,136.0613
Mobile	0.5345	5.8652	3.6994	0.0216	1.5260	8.3900e-003	1.5344	0.4084	7.8000e-003	0.4162	0.0000	2,031.6642	2,031.6642	0.1262	0.0000	2,034.8200
Waste						0.0000	0.0000		0.0000	0.0000	257.5955	0.0000	257.5955	15.2235	0.0000	638.1820
Water						0.0000	0.0000		0.0000	0.0000	14.9683	68.9607	83.9289	1.5458	0.0380	133.9067
Total	**2.5514**	**7.5879**	**5.1599**	**0.0320**	**1.5260**	**0.1394**	**1.6653**	**0.4084**	**0.1388**	**0.5472**	**272.5638**	**4,222.9695**	**4,495.5333**	**16.9615**	**0.0786**	**4,942.9983**

	ROG	NOx	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	**3.79**	**9.95**	**17.61**	**19.50**	**20.00**	**29.21**	**20.86**	**20.00**	**29.26**	**22.57**	**74.02**	**22.79**	**31.03**	**73.10**	**25.68**	**39.17**

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	1/1/2032	3/24/2032	5	60	
2	Site Preparation	Site Preparation	3/25/2032	6/2/2032	5	50	
3	Grading	Grading	6/3/2032	8/11/2032	5	50	
4	Building Construction	Building Construction	8/12/2032	7/12/2034	5	500	
5	Trenching	Trenching	7/13/2034	11/15/2034	5	90	
6	Paving	Paving	11/16/2034	12/13/2034	5	20	
7	Architectural Coating	Architectural Coating	12/14/2034	2/7/2035	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 5.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 705,000; Non-Residential Outdoor: 235,000; Striped Parking Area: 14,400 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crawler Tractors	3	8.00	212	0.43
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	3	8.00	203	0.36
Demolition	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Other Construction Equipment	1	8.00	172	0.42
Building Construction	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	4	8.00	46	0.45
Trenching	Excavators	1	8.00	158	0.38
Trenching	Rollers	1	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Architectural Coating	Air Compressors	2	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	10	80.00	4.00	2,000.00	14.70	6.90	40.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	40.00	4.00	120.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	30.00	4.00	1,300.00	14.70	6.90	0.50	LD_Mix	HDT_Mix	HHDT
Building Construction	10	350.00	40.00	280.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	60.00	4.00	96.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	24.00	2.00	200.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	30.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 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	0.0829	0.3591	0.5881	2.0200e-003		0.0106	0.0106		0.0106	0.0106	0.0000	173.5667	173.5667	6.5700e-003	0.0000	173.7309
Total	**0.0829**	**0.3591**	**0.5881**	**2.0200e-003**		**0.0106**	**0.0106**		**0.0106**	**0.0106**	**0.0000**	**173.5667**	**173.5667**	**6.5700e-003**	**0.0000**	**173.7309**

3.2 Demolition - 2032

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	5.2600e-003	0.1457	0.0484	1.2600e-003	0.0344	4.3000e-004	0.0349	9.4500e-003	4.1000e-004	9.8600e-003	0.0000	121.3296	121.3296	4.2700e-003	0.0000	121.4364
Vendor	1.8000e-004	7.3600e-003	1.4800e-003	3.0000e-005	7.6000e-004	1.0000e-005	7.7000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	2.7348	2.7348	1.3000e-004	0.0000	2.7380
Worker	5.2400e-003	2.6000e-003	0.0363	1.7000e-004	0.0264	9.0000e-005	0.0265	7.0000e-003	9.0000e-005	7.0900e-003	0.0000	15.1301	15.1301	1.8000e-004	0.0000	15.1346
Total	**0.0107**	**0.1556**	**0.0862**	**1.4600e-003**	**0.0616**	**5.3000e-004**	**0.0621**	**0.0167**	**5.1000e-004**	**0.0172**	**0.0000**	**139.1944**	**139.1944**	**4.5800e-003**	**0.0000**	**139.3090**

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	0.0875	0.8546	2.0200e-003		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003	0.0000	173.5665	173.5665	6.5700e-003	0.0000	173.7307
Total	**0.0202**	**0.0875**	**0.8546**	**2.0200e-003**		**2.6900e-003**	**2.6900e-003**		**2.6900e-003**	**2.6900e-003**	**0.0000**	**173.5665**	**173.5665**	**6.5700e-003**	**0.0000**	**173.7307**

3.2 Demolition - 2032

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	5.2600e-003	0.1457	0.0484	1.2600e-003	0.0344	4.3000e-004	0.0349	9.4500e-003	4.1000e-004	9.8600e-003	0.0000	121.3296	121.3296	4.2700e-003	0.0000	121.4364
Vendor	1.8000e-004	7.3600e-003	1.4800e-003	3.0000e-005	7.6000e-004	1.0000e-005	7.7000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	2.7348	2.7348	1.3000e-004	0.0000	2.7380
Worker	5.2400e-003	2.6000e-003	0.0363	1.7000e-004	0.0264	9.0000e-005	0.0265	7.0000e-003	9.0000e-005	7.0900e-003	0.0000	15.1301	15.1301	1.8000e-004	0.0000	15.1346
Total	**0.0107**	**0.1556**	**0.0862**	**1.4600e-003**	**0.0616**	**5.3000e-004**	**0.0621**	**0.0167**	**5.1000e-004**	**0.0172**	**0.0000**	**139.1944**	**139.1944**	**4.5800e-003**	**0.0000**	**139.3090**

3.3 Site Preparation - 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					
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	0.0159	0.0745	0.1561	3.9000e-004		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003	0.0000	33.7456	33.7456	1.2700e-003	0.0000	33.7774
Total	**0.0159**	**0.0745**	**0.1561**	**3.9000e-004**	**0.0000**	**1.7600e-003**	**1.7600e-003**	**0.0000**	**1.7600e-003**	**1.7600e-003**	**0.0000**	**33.7456**	**33.7456**	**1.2700e-003**	**0.0000**	**33.7774**

3.3 Site Preparation - 2032

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	1.9000e-004	6.7700e-003	1.7000e-003	4.0000e-005	1.0300e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	3.0000e-004	0.0000	3.9891	3.9891	1.8000e-004	0.0000	3.9935
Vendor	1.5000e-004	6.1300e-003	1.2300e-003	2.0000e-005	6.3000e-004	1.0000e-005	6.4000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	2.2790	2.2790	1.1000e-004	0.0000	2.2817
Worker	2.1800e-003	1.0800e-003	0.0151	7.0000e-005	0.0110	4.0000e-005	0.0110	2.9200e-003	4.0000e-005	2.9500e-003	0.0000	6.3042	6.3042	8.0000e-005	0.0000	6.3061
Total	**2.5200e-003**	**0.0140**	**0.0181**	**1.3000e-004**	**0.0127**	**6.0000e-005**	**0.0127**	**3.3800e-003**	**6.0000e-005**	**3.4400e-003**	**0.0000**	**12.5723**	**12.5723**	**3.7000e-004**	**0.0000**	**12.5813**

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	3.9300e-003	0.0170	0.1915	3.9000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.7456	33.7456	1.2700e-003	0.0000	33.7774
Total	**3.9300e-003**	**0.0170**	**0.1915**	**3.9000e-004**	**0.0000**	**5.2000e-004**	**5.2000e-004**	**0.0000**	**5.2000e-004**	**5.2000e-004**	**0.0000**	**33.7456**	**33.7456**	**1.2700e-003**	**0.0000**	**33.7774**

3.3 Site Preparation - 2032

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	1.9000e-004	6.7700e-003	1.7000e-003	4.0000e-005	1.0300e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	3.0000e-004	0.0000	3.9891	3.9891	1.8000e-004	0.0000	3.9935
Vendor	1.5000e-004	6.1300e-003	1.2300e-003	2.0000e-005	6.3000e-004	1.0000e-005	6.4000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	2.2790	2.2790	1.1000e-004	0.0000	2.2817
Worker	2.1800e-003	1.0800e-003	0.0151	7.0000e-005	0.0110	4.0000e-005	0.0110	2.9200e-003	4.0000e-005	2.9500e-003	0.0000	6.3042	6.3042	8.0000e-005	0.0000	6.3061
Total	**2.5200e-003**	**0.0140**	**0.0181**	**1.3000e-004**	**0.0127**	**6.0000e-005**	**0.0127**	**3.3800e-003**	**6.0000e-005**	**3.4400e-003**	**0.0000**	**12.5723**	**12.5723**	**3.7000e-004**	**0.0000**	**12.5813**

3.4 Grading - 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					
Fugitive Dust					0.0398	0.0000	0.0398	4.2900e-003	0.0000	4.2900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0353	0.1331	0.3107	9.3000e-004		4.3000e-003	4.3000e-003		4.3000e-003	4.3000e-003	0.0000	80.1870	80.1870	2.8200e-003	0.0000	80.2575
Total	**0.0353**	**0.1331**	**0.3107**	**9.3000e-004**	**0.0398**	**4.3000e-003**	**0.0441**	**4.2900e-003**	**4.3000e-003**	**8.5900e-003**	**0.0000**	**80.1870**	**80.1870**	**2.8200e-003**	**0.0000**	**80.2575**

3.4 Grading - 2032

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	8.2000e-004	0.0526	5.6200e-003	9.0000e-005	2.9000e-004	1.0000e-005	3.0000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	8.4581	8.4581	1.0400e-003	0.0000	8.4841
Vendor	1.5000e-004	6.1300e-003	1.2300e-003	2.0000e-005	6.3000e-004	1.0000e-005	6.4000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	2.2790	2.2790	1.1000e-004	0.0000	2.2817
Worker	1.6400e-003	8.1000e-004	0.0113	5.0000e-005	8.2400e-003	3.0000e-005	8.2700e-003	2.1900e-003	3.0000e-005	2.2200e-003	0.0000	4.7281	4.7281	6.0000e-005	0.0000	4.7296
Total	**2.6100e-003**	**0.0595**	**0.0182**	**1.6000e-004**	**9.1600e-003**	**5.0000e-005**	**9.2100e-003**	**2.4500e-003**	**5.0000e-005**	**2.5000e-003**	**0.0000**	**15.4652**	**15.4652**	**1.2100e-003**	**0.0000**	**15.4954**

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					0.0155	0.0000	0.0155	1.6700e-003	0.0000	1.6700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.3300e-003	0.0404	0.4257	9.3000e-004		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	80.1869	80.1869	2.8200e-003	0.0000	80.2574
Total	**9.3300e-003**	**0.0404**	**0.4257**	**9.3000e-004**	**0.0155**	**1.2400e-003**	**0.0168**	**1.6700e-003**	**1.2400e-003**	**2.9100e-003**	**0.0000**	**80.1869**	**80.1869**	**2.8200e-003**	**0.0000**	**80.2574**

3.4 Grading - 2032

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	8.2000e-004	0.0526	5.6200e-003	9.0000e-005	2.9000e-004	1.0000e-005	3.0000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	8.4581	8.4581	1.0400e-003	0.0000	8.4841
Vendor	1.5000e-004	6.1300e-003	1.2300e-003	2.0000e-005	6.3000e-004	1.0000e-005	6.4000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	2.2790	2.2790	1.1000e-004	0.0000	2.2817
Worker	1.6400e-003	8.1000e-004	0.0113	5.0000e-005	8.2400e-003	3.0000e-005	8.2700e-003	2.1900e-003	3.0000e-005	2.2200e-003	0.0000	4.7281	4.7281	6.0000e-005	0.0000	4.7296
Total	**2.6100e-003**	**0.0595**	**0.0182**	**1.6000e-004**	**9.1600e-003**	**5.0000e-005**	**9.2100e-003**	**2.4500e-003**	**5.0000e-005**	**2.5000e-003**	**0.0000**	**15.4652**	**15.4652**	**1.2100e-003**	**0.0000**	**15.4954**

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	0.0867	0.5401	1.0734	2.0500e-003		0.0105	0.0105		0.0105	0.0105	0.0000	170.0737	170.0737	7.0000e-003	0.0000	170.2487
Total	**0.0867**	**0.5401**	**1.0734**	**2.0500e-003**		**0.0105**	**0.0105**		**0.0105**	**0.0105**	**0.0000**	**170.0737**	**170.0737**	**7.0000e-003**	**0.0000**	**170.2487**

3.5 Building Construction - 2032

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	3.2200e-003	8.1000e-004	2.0000e-005	1.9400e-003	1.0000e-005	1.9400e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.8988	1.8988	8.0000e-005	0.0000	1.9009
Vendor	3.0700e-003	0.1251	0.0252	4.8000e-004	0.0129	1.2000e-004	0.0130	3.7200e-003	1.2000e-004	3.8400e-003	0.0000	46.4910	46.4910	2.1900e-003	0.0000	46.5457
Worker	0.0390	0.0194	0.2700	1.2400e-003	0.1962	7.0000e-004	0.1969	0.0521	6.4000e-004	0.0527	0.0000	112.5297	112.5297	1.3600e-003	0.0000	112.5638
Total	**0.0422**	**0.1477**	**0.2960**	**1.7400e-003**	**0.2110**	**8.3000e-004**	**0.2118**	**0.0563**	**7.7000e-004**	**0.0571**	**0.0000**	**160.9195**	**160.9195**	**3.6300e-003**	**0.0000**	**161.0104**

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	0.0253	0.3148	1.1713	2.0500e-003		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	170.0735	170.0735	7.0000e-003	0.0000	170.2485
Total	**0.0253**	**0.3148**	**1.1713**	**2.0500e-003**		**2.6400e-003**	**2.6400e-003**		**2.6400e-003**	**2.6400e-003**	**0.0000**	**170.0735**	**170.0735**	**7.0000e-003**	**0.0000**	**170.2485**

3.5 Building Construction - 2032

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	3.2200e-003	8.1000e-004	2.0000e-005	1.9400e-003	1.0000e-005	1.9400e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.8988	1.8988	8.0000e-005	0.0000	1.9009
Vendor	3.0700e-003	0.1251	0.0252	4.8000e-004	0.0129	1.2000e-004	0.0130	3.7200e-003	1.2000e-004	3.8400e-003	0.0000	46.4910	46.4910	2.1900e-003	0.0000	46.5457
Worker	0.0390	0.0194	0.2700	1.2400e-003	0.1962	7.0000e-004	0.1969	0.0521	6.4000e-004	0.0527	0.0000	112.5297	112.5297	1.3600e-003	0.0000	112.5638
Total	**0.0422**	**0.1477**	**0.2960**	**1.7400e-003**	**0.2110**	**8.3000e-004**	**0.2118**	**0.0563**	**7.7000e-004**	**0.0571**	**0.0000**	**160.9195**	**160.9195**	**3.6300e-003**	**0.0000**	**161.0104**

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	0.2210	1.3767	2.7360	5.2400e-003		0.0267	0.0267		0.0267	0.0267	0.0000	433.5212	433.5212	0.0178	0.0000	433.9672
Total	**0.2210**	**1.3767**	**2.7360**	**5.2400e-003**		**0.0267**	**0.0267**		**0.0267**	**0.0267**	**0.0000**	**433.5212**	**433.5212**	**0.0178**	**0.0000**	**433.9672**

3.5 Building Construction - 2033

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	2.4000e-004	8.1500e-003	2.0700e-003	5.0000e-005	2.1300e-003	2.0000e-005	2.1400e-003	5.6000e-004	2.0000e-005	5.7000e-004	0.0000	4.8338	4.8338	2.1000e-004	0.0000	4.8391
Vendor	7.7900e-003	0.3171	0.0640	1.2300e-003	0.0328	3.2000e-004	0.0332	9.4700e-003	3.0000e-004	9.7700e-003	0.0000	118.3849	118.3849	5.4800e-003	0.0000	118.5218
Worker	0.0928	0.0459	0.6531	3.1100e-003	0.5001	1.6600e-003	0.5018	0.1328	1.5300e-003	0.1343	0.0000	281.9323	281.9323	3.2200e-003	0.0000	282.0128
Total	**0.1009**	**0.3711**	**0.7192**	**4.3900e-003**	**0.5351**	**2.0000e-003**	**0.5371**	**0.1428**	**1.8500e-003**	**0.1447**	**0.0000**	**405.1510**	**405.1510**	**8.9100e-003**	**0.0000**	**405.3737**

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	0.0645	0.8024	2.9856	5.2400e-003		6.7300e-003	6.7300e-003		6.7300e-003	6.7300e-003	0.0000	433.5207	433.5207	0.0178	0.0000	433.9666
Total	**0.0645**	**0.8024**	**2.9856**	**5.2400e-003**		**6.7300e-003**	**6.7300e-003**		**6.7300e-003**	**6.7300e-003**	**0.0000**	**433.5207**	**433.5207**	**0.0178**	**0.0000**	**433.9666**

3.5 Building Construction - 2033

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	2.4000e-004	8.1500e-003	2.0700e-003	5.0000e-005	2.1300e-003	2.0000e-005	2.1400e-003	5.6000e-004	2.0000e-005	5.7000e-004	0.0000	4.8338	4.8338	2.1000e-004	0.0000	4.8391
Vendor	7.7900e-003	0.3171	0.0640	1.2300e-003	0.0328	3.2000e-004	0.0332	9.4700e-003	3.0000e-004	9.7700e-003	0.0000	118.3849	118.3849	5.4800e-003	0.0000	118.5218
Worker	0.0928	0.0459	0.6531	3.1100e-003	0.5001	1.6600e-003	0.5018	0.1328	1.5300e-003	0.1343	0.0000	281.9323	281.9323	3.2200e-003	0.0000	282.0128
Total	**0.1009**	**0.3711**	**0.7192**	**4.3900e-003**	**0.5351**	**2.0000e-003**	**0.5371**	**0.1428**	**1.8500e-003**	**0.1447**	**0.0000**	**405.1510**	**405.1510**	**8.9100e-003**	**0.0000**	**405.3737**

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	0.1173	0.7307	1.4522	2.7800e-003		0.0142	0.0142		0.0142	0.0142	0.0000	230.0997	230.0997	9.4700e-003	0.0000	230.3364
Total	**0.1173**	**0.7307**	**1.4522**	**2.7800e-003**		**0.0142**	**0.0142**		**0.0142**	**0.0142**	**0.0000**	**230.0997**	**230.0997**	**9.4700e-003**	**0.0000**	**230.3364**

3.5 Building Construction - 2034

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	1.2000e-004	4.3000e-003	1.1000e-003	3.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.1000e-004	1.0000e-005	5.1000e-004	0.0000	2.5630	2.5630	1.1000e-004	0.0000	2.5658
Vendor	4.1300e-003	0.1674	0.0339	6.5000e-004	0.0174	1.7000e-004	0.0176	5.0300e-003	1.6000e-004	5.1900e-003	0.0000	62.7886	62.7886	2.8600e-003	0.0000	62.8600
Worker	0.0464	0.0228	0.3293	1.6300e-003	0.2654	8.3000e-004	0.2663	0.0705	7.6000e-004	0.0712	0.0000	147.3906	147.3906	1.5800e-003	0.0000	147.4302
Total	**0.0506**	**0.1945**	**0.3643**	**2.3100e-003**	**0.2849**	**1.0100e-003**	**0.2859**	**0.0760**	**9.3000e-004**	**0.0769**	**0.0000**	**212.7422**	**212.7422**	**4.5500e-003**	**0.0000**	**212.8560**

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	0.0343	0.4259	1.5847	2.7800e-003		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003	0.0000	230.0995	230.0995	9.4700e-003	0.0000	230.3361
Total	**0.0343**	**0.4259**	**1.5847**	**2.7800e-003**		**3.5700e-003**	**3.5700e-003**		**3.5700e-003**	**3.5700e-003**	**0.0000**	**230.0995**	**230.0995**	**9.4700e-003**	**0.0000**	**230.3361**

3.5 Building Construction - 2034

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	1.2000e-004	4.3000e-003	1.1000e-003	3.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.1000e-004	1.0000e-005	5.1000e-004	0.0000	2.5630	2.5630	1.1000e-004	0.0000	2.5658
Vendor	4.1300e-003	0.1674	0.0339	6.5000e-004	0.0174	1.7000e-004	0.0176	5.0300e-003	1.6000e-004	5.1900e-003	0.0000	62.7886	62.7886	2.8600e-003	0.0000	62.8600
Worker	0.0464	0.0228	0.3293	1.6300e-003	0.2654	8.3000e-004	0.2663	0.0705	7.6000e-004	0.0712	0.0000	147.3906	147.3906	1.5800e-003	0.0000	147.4302
Total	**0.0506**	**0.1945**	**0.3643**	**2.3100e-003**	**0.2849**	**1.0100e-003**	**0.2859**	**0.0760**	**9.3000e-004**	**0.0769**	**0.0000**	**212.7422**	**212.7422**	**4.5500e-003**	**0.0000**	**212.8560**

3.6 Trenching - 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	0.0329	0.1646	0.4591	7.7000e-004		4.4000e-003	4.4000e-003		4.4000e-003	4.4000e-003	0.0000	66.3764	66.3764	2.6500e-003	0.0000	66.4427
Total	**0.0329**	**0.1646**	**0.4591**	**7.7000e-004**		**4.4000e-003**	**4.4000e-003**		**4.4000e-003**	**4.4000e-003**	**0.0000**	**66.3764**	**66.3764**	**2.6500e-003**	**0.0000**	**66.4427**

3.6 Trenching - 2034

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	1.5000e-004	5.3400e-003	1.3700e-003	3.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	3.1839	3.1839	1.4000e-004	0.0000	3.1873
Vendor	2.7000e-004	0.0109	2.2100e-003	4.0000e-005	1.1400e-003	1.0000e-005	1.1500e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	4.0949	4.0949	1.9000e-004	0.0000	4.0996
Worker	5.1800e-003	2.5500e-003	0.0368	1.8000e-004	0.0297	9.0000e-005	0.0298	7.8800e-003	8.0000e-005	7.9700e-003	0.0000	16.4785	16.4785	1.8000e-004	0.0000	16.4829
Total	**5.6000e-003**	**0.0188**	**0.0404**	**2.5000e-004**	**0.0317**	**1.1000e-004**	**0.0318**	**8.4400e-003**	**1.0000e-004**	**8.5500e-003**	**0.0000**	**23.7572**	**23.7572**	**5.1000e-004**	**0.0000**	**23.7697**

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	7.7200e-003	0.0335	0.4764	7.7000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	66.3763	66.3763	2.6500e-003	0.0000	66.4427
Total	**7.7200e-003**	**0.0335**	**0.4764**	**7.7000e-004**		**1.0300e-003**	**1.0300e-003**		**1.0300e-003**	**1.0300e-003**	**0.0000**	**66.3763**	**66.3763**	**2.6500e-003**	**0.0000**	**66.4427**

3.6 Trenching - 2034

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	1.5000e-004	5.3400e-003	1.3700e-003	3.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	3.1839	3.1839	1.4000e-004	0.0000	3.1873
Vendor	2.7000e-004	0.0109	2.2100e-003	4.0000e-005	1.1400e-003	1.0000e-005	1.1500e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	4.0949	4.0949	1.9000e-004	0.0000	4.0996
Worker	5.1800e-003	2.5500e-003	0.0368	1.8000e-004	0.0297	9.0000e-005	0.0298	7.8800e-003	8.0000e-005	7.9700e-003	0.0000	16.4785	16.4785	1.8000e-004	0.0000	16.4829
Total	**5.6000e-003**	**0.0188**	**0.0404**	**2.5000e-004**	**0.0317**	**1.1000e-004**	**0.0318**	**8.4400e-003**	**1.0000e-004**	**8.5500e-003**	**0.0000**	**23.7572**	**23.7572**	**5.1000e-004**	**0.0000**	**23.7697**

3.7 Paving - 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	6.9200e-003	0.0356	0.0793	1.4000e-004		1.6500e-003	1.6500e-003		1.6500e-003	1.6500e-003	0.0000	12.0498	12.0498	5.6000e-004	0.0000	12.0639
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.9200e-003**	**0.0356**	**0.0793**	**1.4000e-004**		**1.6500e-003**	**1.6500e-003**		**1.6500e-003**	**1.6500e-003**	**0.0000**	**12.0498**	**12.0498**	**5.6000e-004**	**0.0000**	**12.0639**

3.7 Paving - 2034

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	3.2000e-004	0.0111	2.8600e-003	7.0000e-005	1.7200e-003	2.0000e-005	1.7400e-003	4.7000e-004	2.0000e-005	4.9000e-004	0.0000	6.6331	6.6331	2.8000e-004	0.0000	6.6402
Vendor	3.0000e-005	1.2100e-003	2.5000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4550	0.4550	2.0000e-005	0.0000	0.4555
Worker	4.6000e-004	2.3000e-004	3.2700e-003	2.0000e-005	2.6400e-003	1.0000e-005	2.6500e-003	7.0000e-004	1.0000e-005	7.1000e-004	0.0000	1.4648	1.4648	2.0000e-005	0.0000	1.4651
Total	**8.1000e-004**	**0.0126**	**6.3800e-003**	**9.0000e-005**	**4.4900e-003**	**3.0000e-005**	**4.5200e-003**	**1.2100e-003**	**3.0000e-005**	**1.2400e-003**	**0.0000**	**8.5528**	**8.5528**	**3.2000e-004**	**0.0000**	**8.5609**

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	1.4000e-003	6.0800e-003	0.0865	1.4000e-004		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	12.0497	12.0497	5.6000e-004	0.0000	12.0639
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.4000e-003**	**6.0800e-003**	**0.0865**	**1.4000e-004**		**1.9000e-004**	**1.9000e-004**		**1.9000e-004**	**1.9000e-004**	**0.0000**	**12.0497**	**12.0497**	**5.6000e-004**	**0.0000**	**12.0639**

3.7 Paving - 2034

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	3.2000e-004	0.0111	2.8600e-003	7.0000e-005	1.7200e-003	2.0000e-005	1.7400e-003	4.7000e-004	2.0000e-005	4.9000e-004	0.0000	6.6331	6.6331	2.8000e-004	0.0000	6.6402
Vendor	3.0000e-005	1.2100e-003	2.5000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4550	0.4550	2.0000e-005	0.0000	0.4555
Worker	4.6000e-004	2.3000e-004	3.2700e-003	2.0000e-005	2.6400e-003	1.0000e-005	2.6500e-003	7.0000e-004	1.0000e-005	7.1000e-004	0.0000	1.4648	1.4648	2.0000e-005	0.0000	1.4651
Total	**8.1000e-004**	**0.0126**	**6.3800e-003**	**9.0000e-005**	**4.4900e-003**	**3.0000e-005**	**4.5200e-003**	**1.2100e-003**	**3.0000e-005**	**1.2400e-003**	**0.0000**	**8.5528**	**8.5528**	**3.2000e-004**	**0.0000**	**8.5609**

3.8 Architectural Coating - 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					
Archit. Coating	0.3368					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5700e-003	0.0103	0.0216	4.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	3.0639	3.0639	1.2000e-004	0.0000	3.0670
Total	**0.3384**	**0.0103**	**0.0216**	**4.0000e-005**		**2.4000e-004**	**2.4000e-004**		**2.4000e-004**	**2.4000e-004**	**0.0000**	**3.0639**	**3.0639**	**1.2000e-004**	**0.0000**	**3.0670**

3.8 Architectural Coating - 2034

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	2.0000e-005	7.3000e-004	1.5000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2730	0.2730	1.0000e-005	0.0000	0.2733
Worker	3.5000e-004	1.7000e-004	2.4500e-003	1.0000e-005	1.9800e-003	1.0000e-005	1.9800e-003	5.3000e-004	1.0000e-005	5.3000e-004	0.0000	1.0986	1.0986	1.0000e-005	0.0000	1.0989
Total	**3.7000e-004**	**9.0000e-004**	**2.6000e-003**	**1.0000e-005**	**2.0600e-003**	**1.0000e-005**	**2.0600e-003**	**5.5000e-004**	**1.0000e-005**	**5.5000e-004**	**0.0000**	**1.3716**	**1.3716**	**2.0000e-005**	**0.0000**	**1.3722**

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	0.3368					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	1.5500e-003	0.0220	4.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	3.0639	3.0639	1.2000e-004	0.0000	3.0670
Total	**0.3371**	**1.5500e-003**	**0.0220**	**4.0000e-005**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**	**0.0000**	**3.0639**	**3.0639**	**1.2000e-004**	**0.0000**	**3.0670**

3.8 Architectural Coating - 2034

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	2.0000e-005	7.3000e-004	1.5000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2730	0.2730	1.0000e-005	0.0000	0.2733
Worker	3.5000e-004	1.7000e-004	2.4500e-003	1.0000e-005	1.9800e-003	1.0000e-005	1.9800e-003	5.3000e-004	1.0000e-005	5.3000e-004	0.0000	1.0986	1.0986	1.0000e-005	0.0000	1.0989
Total	**3.7000e-004**	**9.0000e-004**	**2.6000e-003**	**1.0000e-005**	**2.0600e-003**	**1.0000e-005**	**2.0600e-003**	**5.5000e-004**	**1.0000e-005**	**5.5000e-004**	**0.0000**	**1.3716**	**1.3716**	**2.0000e-005**	**0.0000**	**1.3722**

3.8 Architectural Coating - 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					
Archit. Coating	0.7858					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3000e-003	0.0212	0.0502	8.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	7.1491	7.1491	2.6000e-004	0.0000	7.1557
Total	**0.7891**	**0.0212**	**0.0502**	**8.0000e-005**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**	**0.0000**	**7.1491**	**7.1491**	**2.6000e-004**	**0.0000**	**7.1557**

3.8 Architectural Coating - 2035

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	4.0000e-005	1.6900e-003	3.4000e-004	1.0000e-005	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.6365	0.6365	3.0000e-005	0.0000	0.6373
Worker	7.6000e-004	3.8000e-004	5.4700e-003	3.0000e-005	4.6200e-003	1.0000e-005	4.6300e-003	1.2300e-003	1.0000e-005	1.2400e-003	0.0000	2.5300	2.5300	3.0000e-005	0.0000	2.5307
Total	**8.0000e-004**	**2.0700e-003**	**5.8100e-003**	**4.0000e-005**	**4.8000e-003**	**1.0000e-005**	**4.8100e-003**	**1.2800e-003**	**1.0000e-005**	**1.2900e-003**	**0.0000**	**3.1666**	**3.1666**	**6.0000e-005**	**0.0000**	**3.1679**

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	0.7858					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.3000e-004	3.6100e-003	0.0513	8.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	7.1491	7.1491	2.6000e-004	0.0000	7.1557
Total	**0.7867**	**3.6100e-003**	**0.0513**	**8.0000e-005**		**1.1000e-004**	**1.1000e-004**		**1.1000e-004**	**1.1000e-004**	**0.0000**	**7.1491**	**7.1491**	**2.6000e-004**	**0.0000**	**7.1557**

3.8 Architectural Coating - 2035

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	4.0000e-005	1.6900e-003	3.4000e-004	1.0000e-005	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.6365	0.6365	3.0000e-005	0.0000	0.6373
Worker	7.6000e-004	3.8000e-004	5.4700e-003	3.0000e-005	4.6200e-003	1.0000e-005	4.6300e-003	1.2300e-003	1.0000e-005	1.2400e-003	0.0000	2.5300	2.5300	3.0000e-005	0.0000	2.5307
Total	**8.0000e-004**	**2.0700e-003**	**5.8100e-003**	**4.0000e-005**	**4.8000e-003**	**1.0000e-005**	**4.8100e-003**	**1.2800e-003**	**1.0000e-005**	**1.2900e-003**	**0.0000**	**3.1666**	**3.1666**	**6.0000e-005**	**0.0000**	**3.1679**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Limit Parking Supply

Implement Trip Reduction Program

Market Commute Trip Reduction Option

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5345	5.8652	3.6994	0.0216	1.5260	8.3900e-003	1.5344	0.4084	7.8000e-003	0.4162	0.0000	2,031.6642	2,031.6642	0.1262	0.0000	2,034.8200
Unmitigated	0.5537	5.9657	4.1820	0.0249	1.9075	9.7700e-003	1.9173	0.5105	9.0900e-003	0.5196	0.0000	2,340.7522	2,340.7522	0.1333	0.0000	2,344.0848

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hospital	2,626.00	2,022.14	1769.87	2,215,490	1,772,392
Medical Office Building	3,306.00	819.87	141.83	2,789,189	2,231,351
Total	5,932.00	2,842.01	1,911.70	5,004,679	4,003,744

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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Hospital	0.00	2.52	0.00	0.00	100.00	0.00	100	0	0
Medical Office Building	0.00	3.07	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.565475	0.033834	0.192058	0.100675	0.009211	0.004032	0.016699	0.069908	0.001423	0.001062	0.004327	0.000756	0.000539
Hospital	0.565475	0.033834	0.192058	0.100675	0.009211	0.004032	0.016699	0.069908	0.001423	0.001062	0.004327	0.000756	0.000539
Medical Office Building	0.565475	0.033834	0.192058	0.100675	0.009211	0.004032	0.016699	0.069908	0.001423	0.001062	0.004327	0.000756	0.000539

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	247.1139	247.1139	0.0300	6.2100e-003	249.7137
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	353.0198	353.0198	0.0429	8.8700e-003	356.7339
NaturalGas Mitigated	0.1895	1.7226	1.4469	0.0103		0.1309	0.1309		0.1309	0.1309	0.0000	1,875.2042	1,875.2042	0.0359	0.0344	1,886.3476
NaturalGas Unmitigated	0.2707	2.4608	2.0671	0.0148		0.1870	0.1870		0.1870	0.1870	0.0000	2,678.8632	2,678.8632	0.0513	0.0491	2,694.7823

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					
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
Hospital	5.02e+007	0.2707	2.4608	2.0671	0.0148		0.1870	0.1870		0.1870	0.1870	0.0000	2,678.8632	2,678.8632	0.0513	0.0491	2,694.7823
Medical Office Building	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
Total		**0.2707**	**2.4608**	**2.0671**	**0.0148**		**0.1870**	**0.1870**		**0.1870**	**0.1870**	**0.0000**	**2,678.8632**	**2,678.8632**	**0.0513**	**0.0491**	**2,694.7823**

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
Hospital	3.514e+007	0.1895	1.7226	1.4469	0.0103		0.1309	0.1309		0.1309	0.1309	0.0000	1,875.2042	1,875.2042	0.0359	0.0344	1,886.3476
Medical Office Building	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
Total		**0.1895**	**1.7226**	**1.4469**	**0.0103**		**0.1309**	**0.1309**		**0.1309**	**0.1309**	**0.0000**	**1,875.2042**	**1,875.2042**	**0.0359**	**0.0344**	**1,886.3476**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hospital	3.25829e+006	353.0198	0.0429	8.8700e-003	356.7339
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Total		**353.0198**	**0.0429**	**8.8700e-003**	**356.7339**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hospital	2.2808e+006	247.1139	0.0300	6.2100e-003	249.7137
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Total		**247.1139**	**0.0300**	**6.2100e-003**	**249.7137**

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	1.8274	1.2000e-004	0.0136	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0266	0.0266	7.0000e-005	0.0000	0.0283
Unmitigated	1.8274	1.2000e-004	0.0136	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0266	0.0266	7.0000e-005	0.0000	0.0283

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	0.1123					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2400e-003	1.2000e-004	0.0136	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0266	0.0266	7.0000e-005	0.0000	0.0283
Total	**1.8274**	**1.2000e-004**	**0.0136**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0266**	**0.0266**	**7.0000e-005**	**0.0000**	**0.0283**

6.2 Area by SubCategory

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	0.1123					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2400e-003	1.2000e-004	0.0136	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0266	0.0266	7.0000e-005	0.0000	0.0283
Total	**1.8274**	**1.2000e-004**	**0.0136**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0266**	**0.0266**	**7.0000e-005**	**0.0000**	**0.0283**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed 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	83.9289	1.5458	0.0380	133.9067
Unmitigated	115.4331	1.9335	0.0478	178.0160

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hospital	47.0552 / 8.9629	92.1009	1.5427	0.0381	142.0341
Medical Office Building	11.9207 / 2.2706	23.3322	0.3908	9.6600e-003	35.9820
Total		**115.4331**	**1.9335**	**0.0478**	**178.0160**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hospital	37.6442 / 1.59081	66.9646	1.2333	0.0304	106.8405
Medical Office Building	9.53652 / 0.403006	16.9644	0.3124	7.6900e-003	27.0663
Total		**83.9289**	**1.5458**	**0.0380**	**133.9067**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	257.5955	15.2235	0.0000	638.1820
Unmitigated	1,030.3821	60.8938	0.0000	2,552.7281

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hospital	4050	822.1134	48.5855	0.0000	2,036.7512
Medical Office Building	1026	208.2687	12.3083	0.0000	515.9770
Total		**1,030.3821**	**60.8938**	**0.0000**	**2,552.7281**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hospital	1012.5	205.5284	12.1464	0.0000	509.1878
Medical Office Building	256.5	52.0672	3.0771	0.0000	128.9942
Total		**257.5955**	**15.2235**	**0.0000**	**638.1820**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Kaiser Moreno Valley - Phase III

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	375.00	1000sqft	8.61	375,000.00	0
Medical Office Building	95.00	1000sqft	2.18	95,000.00	0
Enclosed Parking with Elevator	600.00	Space	5.40	240,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2035
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	238.86	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - In accordance with SB 100 goal of 100% renewable by 2045.

Land Use - Based on project description.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.
Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - Based on applicant provided information. Grading is balanced onsite.

On-road Fugitive Dust - CalEEMod defaults.

Grading - CalEEMod defaults.

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Based on trip gen for Phase III.

Road Dust - CalEEMod defaults.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults for electricity. Natural gas based on applicant provided information.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - water 3x daily and vehicle speed limit of 15 mph on unpaved roads.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation - All LED lighting. Compliance with 2019 Title 24.

Water Mitigation -

Waste Mitigation - In accordance with AB 939.

Kaiser Moreno Valley - Phase III - Riverside-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblEnergyUse	LightingElect	3.66	0.00
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tblEnergyUse	T24E	8.35	8.69
tblEnergyUse	T24E	3.07	0.00
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tblEnergyUse	T24NG	3.47	0.00
tblGrading	AcresOfGrading	50.00	75.00
tblGrading	AcresOfGrading	25.00	0.00
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tblTripsAndVMT	HaulingTripLength	20.00	40.00
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tblTripsAndVMT	HaulingTripNumber	0.00	2,000.00
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tblTripsAndVMT	HaulingTripNumber	0.00	96.00

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tblVehicleTrips	CC_TL	8.40	2.52
tblVehicleTrips	CC_TL	8.40	3.07
tblVehicleTrips	CC_TTP	16.10	100.00
tblVehicleTrips	CC_TTP	51.40	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
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tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	64.90	0.00
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tblVehicleTrips	PR_TP	60.00	100.00
tblVehicleTrips	ST_TR	10.18	5.39
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tblVehicleTrips	SU_TR	1.55	1.49
tblVehicleTrips	WD_TR	13.22	7.00
tblVehicleTrips	WD_TR	36.13	34.80

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2032	3.1342	17.0650	27.8237	0.1164	4.2069	0.3717	4.4282	1.1210	0.3708	1.3411	0.0000	11,566.7682	11,566.7682	0.4071	0.0000	11,576.9447
2033	2.5392	13.4259	27.5092	0.0763	4.1849	0.2204	4.4052	1.1156	0.2192	1.3348	0.0000	7,335.5911	7,335.5911	0.2279	0.0000	7,341.2889
2034	56.4570	13.3918	27.2166	0.0759	4.1974	0.2195	4.4169	1.1187	0.2184	1.3371	0.0000	7,295.9252	7,295.9252	0.2250	0.0000	7,301.5491
2035	56.4277	1.6616	4.0787	8.5900e-003	0.3481	0.0209	0.3690	0.0926	0.0208	0.1134	0.0000	830.3912	830.3912	0.0252	0.0000	831.0217
Maximum	**56.4570**	**17.0650**	**27.8237**	**0.1164**	**4.2069**	**0.3717**	**4.4282**	**1.1210**	**0.3708**	**1.3411**	**0.0000**	**11,566.7682**	**11,566.7682**	**0.4071**	**0.0000**	**11,576.9447**

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2032	1.3918	9.0475	31.5462	0.1164	4.2069	0.1075	4.2749	1.1210	0.1067	1.1878	0.0000	11,566.7682	11,566.7682	0.4071	0.0000	11,576.9447
2033	1.3358	9.0079	29.4292	0.0763	4.1849	0.0671	4.2520	1.1156	0.0659	1.1816	0.0000	7,335.5911	7,335.5911	0.2279	0.0000	7,341.2889
2034	56.2549	8.9737	29.1365	0.0759	4.1974	0.0662	4.2637	1.1187	0.0652	1.1839	0.0000	7,295.9252	7,295.9252	0.2250	0.0000	7,301.5491
2035	56.2514	0.4037	4.1549	8.5900e-003	0.3481	9.0100e-003	0.3571	0.0926	8.9200e-003	0.1015	0.0000	830.3912	830.3912	0.0252	0.0000	831.0217
Maximum	**56.2549**	**9.0475**	**31.5462**	**0.1164**	**4.2069**	**0.1075**	**4.2749**	**1.1210**	**0.1067**	**1.1878**	**0.0000**	**11,566.7682**	**11,566.7682**	**0.4071**	**0.0000**	**11,576.9447**

	ROG	NOx	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	**2.80**	**39.77**	**-8.82**	**0.00**	**0.00**	**69.98**	**3.46**	**0.00**	**70.25**	**11.43**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	lb/day										lb/day					
Area	10.0161	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493
Energy	1.4832	13.4838	11.3264	0.0809		1.0248	1.0248		1.0248	1.0248		16,180.4996	16,180.4996	0.3101	0.2966	16,276.6522
Mobile	4.5336	39.8716	29.3163	0.1756	12.9802	0.0650	13.0451	3.4694	0.0604	3.5298		18,146.7496	18,146.7496	0.9450		18,170.3747
Total	**16.0329**	**53.3563**	**40.7513**	**0.2565**	**12.9802**	**1.0901**	**14.0703**	**3.4694**	**1.0856**	**4.5550**		**34,327.4834**	**34,327.4834**	**1.2557**	**0.2966**	**34,447.2762**

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	lb/day										lb/day					
Area	10.0161	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493
Energy	1.0383	9.4386	7.9284	0.0566		0.7173	0.7173		0.7173	0.7173		11,326.3497	11,326.3497	0.2171	0.2077	11,393.6566
Mobile	4.4013	39.2407	25.5194	0.1521	10.3841	0.0557	10.4399	2.7755	0.0518	2.8273		15,743.5925	15,743.5925	0.8911		15,765.8689
Total	**15.4556**	**48.6803**	**33.5564**	**0.2087**	**10.3841**	**0.7735**	**11.1576**	**2.7755**	**0.7696**	**3.5451**		**27,070.1764**	**27,070.1764**	**1.1088**	**0.2077**	**27,159.7747**

	ROG	NOx	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	**3.60**	**8.76**	**17.66**	**18.62**	**20.00**	**29.05**	**20.70**	**20.00**	**29.11**	**22.17**	**0.00**	**21.14**	**21.14**	**11.70**	**30.00**	**21.16**

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	1/1/2032	3/24/2032	5	60	
2	Site Preparation	Site Preparation	3/25/2032	6/2/2032	5	50	
3	Grading	Grading	6/3/2032	8/11/2032	5	50	
4	Building Construction	Building Construction	8/12/2032	7/12/2034	5	500	
5	Trenching	Trenching	7/13/2034	11/15/2034	5	90	
6	Paving	Paving	11/16/2034	12/13/2034	5	20	
7	Architectural Coating	Architectural Coating	12/14/2034	2/7/2035	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 5.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 705,000; Non-Residential Outdoor: 235,000; Striped Parking Area: 14,400 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crawler Tractors	3	8.00	212	0.43
Demolition	Excavators	0	8.00	158	0.38

Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	3	8.00	203	0.36
Demolition	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Other Construction Equipment	1	8.00	172	0.42
Building Construction	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	4	8.00	46	0.45
Trenching	Excavators	1	8.00	158	0.38
Trenching	Rollers	1	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38

Architectural Coating	Air Compressors	2	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	10	80.00	4.00	2,000.00	14.70	6.90	40.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	40.00	4.00	120.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	30.00	4.00	1,300.00	14.70	6.90	0.50	LD_Mix	HDT_Mix	HHDT
Building Construction	10	350.00	40.00	280.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	60.00	4.00	96.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	24.00	2.00	200.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	30.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 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	lb/day										lb/day					
Off-Road	2.7644	11.9696	19.6031	0.0673		0.3540	0.3540		0.3540	0.3540		6,377.4845	6,377.4845	0.2413		6,383.5171
Total	**2.7644**	**11.9696**	**19.6031**	**0.0673**		**0.3540**	**0.3540**		**0.3540**	**0.3540**		**6,377.4845**	**6,377.4845**	**0.2413**		**6,383.5171**

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	lb/day										lb/day					
Hauling	0.1731	4.7683	1.5729	0.0421	1.1647	0.0144	1.1791	0.3192	0.0138	0.3329		4,482.8914	4,482.8914	0.1537		4,486.7342
Vendor	5.8800e-003	0.2456	0.0458	9.6000e-004	0.0256	2.4000e-004	0.0259	7.3700e-003	2.3000e-004	7.6000e-003		102.0106	102.0106	4.5300e-003		102.1239
Worker	0.1908	0.0815	1.4411	6.0500e-003	0.8942	3.1300e-003	0.8973	0.2372	2.8800e-003	0.2400		604.3817	604.3817	7.5100e-003		604.5695
Total	**0.3698**	**5.0954**	**3.0597**	**0.0491**	**2.0846**	**0.0178**	**2.1023**	**0.5637**	**0.0169**	**0.5806**		**5,189.2837**	**5,189.2837**	**0.1658**		**5,193.4276**

3.2 Demolition - 2032

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	lb/day										lb/day					
Off-Road	0.6733	2.9177	28.4865	0.0673		0.0898	0.0898		0.0898	0.0898	0.0000	6,377.4845	6,377.4845	0.2413		6,383.5171
Total	**0.6733**	**2.9177**	**28.4865**	**0.0673**		**0.0898**	**0.0898**		**0.0898**	**0.0898**	**0.0000**	**6,377.4845**	**6,377.4845**	**0.2413**		**6,383.5171**

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	lb/day										lb/day					
Hauling	0.1731	4.7683	1.5729	0.0421	1.1647	0.0144	1.1791	0.3192	0.0138	0.3329		4,482.8914	4,482.8914	0.1537		4,486.7342
Vendor	5.8800e-003	0.2456	0.0458	9.6000e-004	0.0256	2.4000e-004	0.0259	7.3700e-003	2.3000e-004	7.6000e-003		102.0106	102.0106	4.5300e-003		102.1239
Worker	0.1908	0.0815	1.4411	6.0500e-003	0.8942	3.1300e-003	0.8973	0.2372	2.8800e-003	0.2400		604.3817	604.3817	7.5100e-003		604.5695
Total	**0.3698**	**5.0954**	**3.0597**	**0.0491**	**2.0846**	**0.0178**	**2.1023**	**0.5637**	**0.0169**	**0.5806**		**5,189.2837**	**5,189.2837**	**0.1658**		**5,193.4276**

3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6364	2.9809	6.2428	0.0157		0.0704	0.0704		0.0704	0.0704		1,487.9260	1,487.9260	0.0561		1,489.3279
Total	**0.6364**	**2.9809**	**6.2428**	**0.0157**	**0.0000**	**0.0704**	**0.0704**	**0.0000**	**0.0704**	**0.0704**		**1,487.9260**	**1,487.9260**	**0.0561**		**1,489.3279**

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	lb/day										lb/day					
Hauling	7.6000e-003	0.2690	0.0648	1.6700e-003	0.0420	5.3000e-004	0.0425	0.0115	5.0000e-004	0.0120		177.6754	177.6754	7.4900e-003		177.8628
Vendor	5.8800e-003	0.2456	0.0458	9.6000e-004	0.0256	2.4000e-004	0.0259	7.3700e-003	2.3000e-004	7.6000e-003		102.0106	102.0106	4.5300e-003		102.1239
Worker	0.0954	0.0407	0.7205	3.0300e-003	0.4471	1.5700e-003	0.4487	0.1186	1.4400e-003	0.1200		302.1909	302.1909	3.7600e-003		302.2848
Total	**0.1089**	**0.5554**	**0.8311**	**5.6600e-003**	**0.5147**	**2.3400e-003**	**0.5170**	**0.1374**	**2.1700e-003**	**0.1396**		**581.8769**	**581.8769**	**0.0158**		**582.2714**

3.3 Site Preparation - 2032

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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1571	0.6807	7.6590	0.0157		0.0210	0.0210		0.0210	0.0210	0.0000	1,487.9260	1,487.9260	0.0561		1,489.3279
Total	**0.1571**	**0.6807**	**7.6590**	**0.0157**	**0.0000**	**0.0210**	**0.0210**	**0.0000**	**0.0210**	**0.0210**	**0.0000**	**1,487.9260**	**1,487.9260**	**0.0561**		**1,489.3279**

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	lb/day										lb/day					
Hauling	7.6000e-003	0.2690	0.0648	1.6700e-003	0.0420	5.3000e-004	0.0425	0.0115	5.0000e-004	0.0120		177.6754	177.6754	7.4900e-003		177.8628
Vendor	5.8800e-003	0.2456	0.0458	9.6000e-004	0.0256	2.4000e-004	0.0259	7.3700e-003	2.3000e-004	7.6000e-003		102.0106	102.0106	4.5300e-003		102.1239
Worker	0.0954	0.0407	0.7205	3.0300e-003	0.4471	1.5700e-003	0.4487	0.1186	1.4400e-003	0.1200		302.1909	302.1909	3.7600e-003		302.2848
Total	**0.1089**	**0.5554**	**0.8311**	**5.6600e-003**	**0.5147**	**2.3400e-003**	**0.5170**	**0.1374**	**2.1700e-003**	**0.1396**		**581.8769**	**581.8769**	**0.0158**		**582.2714**

3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.4129	5.3235	12.4279	0.0373		0.1720	0.1720		0.1720	0.1720		3,535.6410	3,535.6410	0.1244		3,538.7503
Total	**1.4129**	**5.3235**	**12.4279**	**0.0373**	**1.5908**	**0.1720**	**1.7627**	**0.1718**	**0.1720**	**0.3438**		**3,535.6410**	**3,535.6410**	**0.1244**		**3,538.7503**

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	lb/day										lb/day					
Hauling	0.0311	2.1300	0.1903	3.6900e-003	0.0119	2.9000e-004	0.0122	3.3100e-003	2.8000e-004	3.5900e-003		392.2751	392.2751	0.0434		393.3603
Vendor	5.8800e-003	0.2456	0.0458	9.6000e-004	0.0256	2.4000e-004	0.0259	7.3700e-003	2.3000e-004	7.6000e-003		102.0106	102.0106	4.5300e-003		102.1239
Worker	0.0716	0.0306	0.5404	2.2700e-003	0.3353	1.1700e-003	0.3365	0.0889	1.0800e-003	0.0900		226.6432	226.6432	2.8200e-003		226.7136
Total	**0.1085**	**2.4062**	**0.7764**	**6.9200e-003**	**0.3728**	**1.7000e-003**	**0.3745**	**0.0996**	**1.5900e-003**	**0.1012**		**720.9288**	**720.9288**	**0.0508**		**722.1978**

3.4 Grading - 2032

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	lb/day										lb/day					
Fugitive Dust					0.6204	0.0000	0.6204	0.0670	0.0000	0.0670			0.0000			0.0000
Off-Road	0.3733	1.6176	17.0293	0.0373		0.0498	0.0498		0.0498	0.0498	0.0000	3,535.6410	3,535.6410	0.1244		3,538.7503
Total	**0.3733**	**1.6176**	**17.0293**	**0.0373**	**0.6204**	**0.0498**	**0.6702**	**0.0670**	**0.0498**	**0.1168**	**0.0000**	**3,535.6410**	**3,535.6410**	**0.1244**		**3,538.7503**

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	lb/day										lb/day					
Hauling	0.0311	2.1300	0.1903	3.6900e-003	0.0119	2.9000e-004	0.0122	3.3100e-003	2.8000e-004	3.5900e-003		392.2751	392.2751	0.0434		393.3603
Vendor	5.8800e-003	0.2456	0.0458	9.6000e-004	0.0256	2.4000e-004	0.0259	7.3700e-003	2.3000e-004	7.6000e-003		102.0106	102.0106	4.5300e-003		102.1239
Worker	0.0716	0.0306	0.5404	2.2700e-003	0.3353	1.1700e-003	0.3365	0.0889	1.0800e-003	0.0900		226.6432	226.6432	2.8200e-003		226.7136
Total	**0.1085**	**2.4062**	**0.7764**	**6.9200e-003**	**0.3728**	**1.7000e-003**	**0.3745**	**0.0996**	**1.5900e-003**	**0.1012**		**720.9288**	**720.9288**	**0.0508**		**722.1978**

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	lb/day										lb/day					
Off-Road	1.6998	10.5903	21.0464	0.0403		0.2050	0.2050		0.2050	0.2050		3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**1.6998**	**10.5903**	**21.0464**	**0.0403**		**0.2050**	**0.2050**		**0.2050**	**0.2050**		**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	1.7700e-003	0.0628	0.0151	3.9000e-004	0.0387	1.2000e-004	0.0388	9.7700e-003	1.2000e-004	9.8900e-003		41.4576	41.4576	1.7500e-003		41.5013
Vendor	0.0588	2.4561	0.4576	9.6500e-003	0.2561	2.4300e-003	0.2585	0.0737	2.3200e-003	0.0760		1,020.1056	1,020.1056	0.0453		1,021.2386
Worker	0.8349	0.3564	6.3047	0.0265	3.9122	0.0137	3.9259	1.0375	0.0126	1.0501		2,644.1701	2,644.1701	0.0329		2,644.9916
Total	**0.8954**	**2.8752**	**6.7774**	**0.0365**	**4.2069**	**0.0163**	**4.2232**	**1.1210**	**0.0150**	**1.1361**		**3,705.7333**	**3,705.7333**	**0.0799**		**3,707.7315**

3.5 Building Construction - 2032

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	lb/day										lb/day					
Off-Road	0.4964	6.1723	22.9664	0.0403		0.0518	0.0518		0.0518	0.0518	0.0000	3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**0.4964**	**6.1723**	**22.9664**	**0.0403**		**0.0518**	**0.0518**		**0.0518**	**0.0518**	**0.0000**	**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	1.7700e-003	0.0628	0.0151	3.9000e-004	0.0387	1.2000e-004	0.0388	9.7700e-003	1.2000e-004	9.8900e-003		41.4576	41.4576	1.7500e-003		41.5013
Vendor	0.0588	2.4561	0.4576	9.6500e-003	0.2561	2.4300e-003	0.2585	0.0737	2.3200e-003	0.0760		1,020.1056	1,020.1056	0.0453		1,021.2386
Worker	0.8349	0.3564	6.3047	0.0265	3.9122	0.0137	3.9259	1.0375	0.0126	1.0501		2,644.1701	2,644.1701	0.0329		2,644.9916
Total	**0.8954**	**2.8752**	**6.7774**	**0.0365**	**4.2069**	**0.0163**	**4.2232**	**1.1210**	**0.0150**	**1.1361**		**3,705.7333**	**3,705.7333**	**0.0799**		**3,707.7315**

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	lb/day										lb/day					
Off-Road	1.6998	10.5903	21.0464	0.0403		0.2050	0.2050		0.2050	0.2050		3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**1.6998**	**10.5903**	**21.0464**	**0.0403**		**0.2050**	**0.2050**		**0.2050**	**0.2050**		**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	1.7700e-003	0.0623	0.0152	3.9000e-004	0.0166	1.2000e-004	0.0168	4.3600e-003	1.2000e-004	4.4800e-003		41.4044	41.4044	1.7300e-003		41.4475
Vendor	0.0586	2.4417	0.4563	9.6400e-003	0.2561	2.4100e-003	0.2585	0.0737	2.3000e-003	0.0760		1,019.0870	1,019.0870	0.0445		1,020.1986
Worker	0.7791	0.3316	5.9913	0.0260	3.9122	0.0128	3.9250	1.0375	0.0118	1.0493		2,599.1357	2,599.1357	0.0305		2,599.8974
Total	**0.8394**	**2.8356**	**6.4628**	**0.0361**	**4.1849**	**0.0153**	**4.2002**	**1.1156**	**0.0142**	**1.1298**		**3,659.6270**	**3,659.6270**	**0.0767**		**3,661.5435**

3.5 Building Construction - 2033

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	lb/day										lb/day					
Off-Road	0.4964	6.1723	22.9664	0.0403		0.0518	0.0518		0.0518	0.0518	0.0000	3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**0.4964**	**6.1723**	**22.9664**	**0.0403**		**0.0518**	**0.0518**		**0.0518**	**0.0518**	**0.0000**	**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	1.7700e-003	0.0623	0.0152	3.9000e-004	0.0166	1.2000e-004	0.0168	4.3600e-003	1.2000e-004	4.4800e-003		41.4044	41.4044	1.7300e-003		41.4475
Vendor	0.0586	2.4417	0.4563	9.6400e-003	0.2561	2.4100e-003	0.2585	0.0737	2.3000e-003	0.0760		1,019.0870	1,019.0870	0.0445		1,020.1986
Worker	0.7791	0.3316	5.9913	0.0260	3.9122	0.0128	3.9250	1.0375	0.0118	1.0493		2,599.1357	2,599.1357	0.0305		2,599.8974
Total	**0.8394**	**2.8356**	**6.4628**	**0.0361**	**4.1849**	**0.0153**	**4.2002**	**1.1156**	**0.0142**	**1.1298**		**3,659.6270**	**3,659.6270**	**0.0767**		**3,661.5435**

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	lb/day										lb/day					
Off-Road	1.6998	10.5903	21.0464	0.0403		0.2050	0.2050		0.2050	0.2050		3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**1.6998**	**10.5903**	**21.0464**	**0.0403**		**0.2050**	**0.2050**		**0.2050**	**0.2050**		**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	1.7700e-003	0.0619	0.0153	3.9000e-004	0.0292	1.2000e-004	0.0293	7.4500e-003	1.2000e-004	7.5700e-003		41.3632	41.3632	1.7100e-003		41.4059
Vendor	0.0584	2.4286	0.4552	9.6300e-003	0.2561	2.3900e-003	0.2584	0.0737	2.2800e-003	0.0760		1,018.3658	1,018.3658	0.0437		1,019.4589
Worker	0.7316	0.3110	5.6997	0.0256	3.9122	0.0120	3.9242	1.0375	0.0110	1.0486		2,560.2320	2,560.2320	0.0283		2,560.9389
Total	**0.7918**	**2.8015**	**6.1702**	**0.0357**	**4.1974**	**0.0145**	**4.2119**	**1.1187**	**0.0134**	**1.1321**		**3,619.9611**	**3,619.9611**	**0.0737**		**3,621.8037**

3.5 Building Construction - 2034

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	lb/day										lb/day					
Off-Road	0.4964	6.1723	22.9664	0.0403		0.0518	0.0518		0.0518	0.0518	0.0000	3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**0.4964**	**6.1723**	**22.9664**	**0.0403**		**0.0518**	**0.0518**		**0.0518**	**0.0518**	**0.0000**	**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	1.7700e-003	0.0619	0.0153	3.9000e-004	0.0292	1.2000e-004	0.0293	7.4500e-003	1.2000e-004	7.5700e-003		41.3632	41.3632	1.7100e-003		41.4059
Vendor	0.0584	2.4286	0.4552	9.6300e-003	0.2561	2.3900e-003	0.2584	0.0737	2.2800e-003	0.0760		1,018.3658	1,018.3658	0.0437		1,019.4589
Worker	0.7316	0.3110	5.6997	0.0256	3.9122	0.0120	3.9242	1.0375	0.0110	1.0486		2,560.2320	2,560.2320	0.0283		2,560.9389
Total	**0.7918**	**2.8015**	**6.1702**	**0.0357**	**4.1974**	**0.0145**	**4.2119**	**1.1187**	**0.0134**	**1.1321**		**3,619.9611**	**3,619.9611**	**0.0737**		**3,621.8037**

3.6 Trenching - 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	lb/day										lb/day					
Off-Road	0.7302	3.6574	10.2017	0.0172		0.0977	0.0977		0.0977	0.0977		1,625.9438	1,625.9438	0.0650		1,627.5683
Total	**0.7302**	**3.6574**	**10.2017**	**0.0172**		**0.0977**	**0.0977**		**0.0977**	**0.0977**		**1,625.9438**	**1,625.9438**	**0.0650**		**1,627.5683**

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	lb/day										lb/day					
Hauling	3.3700e-003	0.1180	0.0291	7.4000e-004	0.0187	2.3000e-004	0.0189	5.1100e-003	2.2000e-004	5.3300e-003		78.7871	78.7871	3.2500e-003		78.8684
Vendor	5.8400e-003	0.2429	0.0455	9.6000e-004	0.0256	2.4000e-004	0.0258	7.3700e-003	2.3000e-004	7.6000e-003		101.8366	101.8366	4.3700e-003		101.9459
Worker	0.1254	0.0533	0.9771	4.4000e-003	0.6707	2.0500e-003	0.6727	0.1779	1.8900e-003	0.1798		438.8969	438.8969	4.8500e-003		439.0181
Total	**0.1346**	**0.4141**	**1.0517**	**6.1000e-003**	**0.7149**	**2.5200e-003**	**0.7174**	**0.1903**	**2.3400e-003**	**0.1927**		**619.5206**	**619.5206**	**0.0125**		**619.8324**

3.6 Trenching - 2034

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	lb/day										lb/day					
Off-Road	0.1717	0.7439	10.5860	0.0172		0.0229	0.0229		0.0229	0.0229	0.0000	1,625.9438	1,625.9438	0.0650		1,627.5683
Total	**0.1717**	**0.7439**	**10.5860**	**0.0172**		**0.0229**	**0.0229**		**0.0229**	**0.0229**	**0.0000**	**1,625.9438**	**1,625.9438**	**0.0650**		**1,627.5683**

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	lb/day										lb/day					
Hauling	3.3700e-003	0.1180	0.0291	7.4000e-004	0.0187	2.3000e-004	0.0189	5.1100e-003	2.2000e-004	5.3300e-003		78.7871	78.7871	3.2500e-003		78.8684
Vendor	5.8400e-003	0.2429	0.0455	9.6000e-004	0.0256	2.4000e-004	0.0258	7.3700e-003	2.3000e-004	7.6000e-003		101.8366	101.8366	4.3700e-003		101.9459
Worker	0.1254	0.0533	0.9771	4.4000e-003	0.6707	2.0500e-003	0.6727	0.1779	1.8900e-003	0.1798		438.8969	438.8969	4.8500e-003		439.0181
Total	**0.1346**	**0.4141**	**1.0517**	**6.1000e-003**	**0.7149**	**2.5200e-003**	**0.7174**	**0.1903**	**2.3400e-003**	**0.1927**		**619.5206**	**619.5206**	**0.0125**		**619.8324**

3.7 Paving - 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	lb/day										lb/day					
Off-Road	0.6923	3.5601	7.9248	0.0140		0.1653	0.1653		0.1653	0.1653		1,328.2584	1,328.2584	0.0623		1,329.8151
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6923**	**3.5601**	**7.9248**	**0.0140**		**0.1653**	**0.1653**		**0.1653**	**0.1653**		**1,328.2584**	**1,328.2584**	**0.0623**		**1,329.8151**

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	lb/day										lb/day					
Hauling	0.0316	1.1060	0.2731	6.9300e-003	0.1748	2.1500e-003	0.1770	0.0479	2.0600e-003	0.0500		738.6293	738.6293	0.0305		739.3910
Vendor	2.9200e-003	0.1214	0.0228	4.8000e-004	0.0128	1.2000e-004	0.0129	3.6900e-003	1.1000e-004	3.8000e-003		50.9183	50.9183	2.1900e-003		50.9730
Worker	0.0502	0.0213	0.3908	1.7600e-003	0.2683	8.2000e-004	0.2691	0.0711	7.6000e-004	0.0719		175.5588	175.5588	1.9400e-003		175.6072
Total	**0.0847**	**1.2488**	**0.6867**	**9.1700e-003**	**0.4559**	**3.0900e-003**	**0.4590**	**0.1227**	**2.9300e-003**	**0.1257**		**965.1063**	**965.1063**	**0.0346**		**965.9712**

3.7 Paving - 2034

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	lb/day										lb/day					
Off-Road	0.1402	0.6077	8.6478	0.0140		0.0187	0.0187		0.0187	0.0187	0.0000	1,328.2584	1,328.2584	0.0623		1,329.8151
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1402**	**0.6077**	**8.6478**	**0.0140**		**0.0187**	**0.0187**		**0.0187**	**0.0187**	**0.0000**	**1,328.2584**	**1,328.2584**	**0.0623**		**1,329.8151**

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	lb/day										lb/day					
Hauling	0.0316	1.1060	0.2731	6.9300e-003	0.1748	2.1500e-003	0.1770	0.0479	2.0600e-003	0.0500		738.6293	738.6293	0.0305		739.3910
Vendor	2.9200e-003	0.1214	0.0228	4.8000e-004	0.0128	1.2000e-004	0.0129	3.6900e-003	1.1000e-004	3.8000e-003		50.9183	50.9183	2.1900e-003		50.9730
Worker	0.0502	0.0213	0.3908	1.7600e-003	0.2683	8.2000e-004	0.2691	0.0711	7.6000e-004	0.0719		175.5588	175.5588	1.9400e-003		175.6072
Total	**0.0847**	**1.2488**	**0.6867**	**9.1700e-003**	**0.4559**	**3.0900e-003**	**0.4590**	**0.1227**	**2.9300e-003**	**0.1257**		**965.1063**	**965.1063**	**0.0346**		**965.9712**

3.8 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	56.1299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2615	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656
Total	**56.3913**	**1.7126**	**3.5955**	**5.9400e-003**		**0.0406**	**0.0406**		**0.0406**	**0.0406**		**562.8961**	**562.8961**	**0.0228**		**563.4656**

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	lb/day										lb/day					
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
Vendor	2.9200e-003	0.1214	0.0228	4.8000e-004	0.0128	1.2000e-004	0.0129	3.6900e-003	1.1000e-004	3.8000e-003		50.9183	50.9183	2.1900e-003		50.9730
Worker	0.0627	0.0267	0.4885	2.2000e-003	0.3353	1.0300e-003	0.3364	0.0889	9.4000e-004	0.0899		219.4485	219.4485	2.4200e-003		219.5091
Total	**0.0656**	**0.1481**	**0.5113**	**2.6800e-003**	**0.3481**	**1.1500e-003**	**0.3493**	**0.0926**	**1.0500e-003**	**0.0937**		**270.3668**	**270.3668**	**4.6100e-003**		**270.4820**

3.8 Architectural Coating - 2034

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	lb/day										lb/day					
Archit. Coating	56.1299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0228		563.4656
Total	**56.1893**	**0.2575**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0228**		**563.4656**

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	lb/day										lb/day					
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
Vendor	2.9200e-003	0.1214	0.0228	4.8000e-004	0.0128	1.2000e-004	0.0129	3.6900e-003	1.1000e-004	3.8000e-003		50.9183	50.9183	2.1900e-003		50.9730
Worker	0.0627	0.0267	0.4885	2.2000e-003	0.3353	1.0300e-003	0.3364	0.0889	9.4000e-004	0.0899		219.4485	219.4485	2.4200e-003		219.5091
Total	**0.0656**	**0.1481**	**0.5113**	**2.6800e-003**	**0.3481**	**1.1500e-003**	**0.3493**	**0.0926**	**1.0500e-003**	**0.0937**		**270.3668**	**270.3668**	**4.6100e-003**		**270.4820**

3.8 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	56.1299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161
Total	**56.3656**	**1.5155**	**3.5886**	**5.9400e-003**		**0.0198**	**0.0198**		**0.0198**	**0.0198**		**562.8961**	**562.8961**	**0.0208**		**563.4161**

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	lb/day										lb/day					
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
Vendor	2.9100e-003	0.1209	0.0227	4.8000e-004	0.0128	1.2000e-004	0.0129	3.6900e-003	1.1000e-004	3.8000e-003		50.8835	50.8835	2.1500e-003		50.9374
Worker	0.0592	0.0253	0.4674	2.1700e-003	0.3353	9.6000e-004	0.3363	0.0889	8.9000e-004	0.0898		216.6116	216.6116	2.2700e-003		216.6683
Total	**0.0621**	**0.1462**	**0.4901**	**2.6500e-003**	**0.3481**	**1.0800e-003**	**0.3492**	**0.0926**	**1.0000e-003**	**0.0936**		**267.4951**	**267.4951**	**4.4200e-003**		**267.6056**

3.8 Architectural Coating - 2035

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	lb/day										lb/day					
Archit. Coating	56.1299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0208		563.4161
Total	**56.1893**	**0.2575**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0208**		**563.4161**

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	lb/day										lb/day					
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
Vendor	2.9100e-003	0.1209	0.0227	4.8000e-004	0.0128	1.2000e-004	0.0129	3.6900e-003	1.1000e-004	3.8000e-003		50.8835	50.8835	2.1500e-003		50.9374
Worker	0.0592	0.0253	0.4674	2.1700e-003	0.3353	9.6000e-004	0.3363	0.0889	8.9000e-004	0.0898		216.6116	216.6116	2.2700e-003		216.6683
Total	**0.0621**	**0.1462**	**0.4901**	**2.6500e-003**	**0.3481**	**1.0800e-003**	**0.3492**	**0.0926**	**1.0000e-003**	**0.0936**		**267.4951**	**267.4951**	**4.4200e-003**		**267.6056**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Limit Parking Supply

Implement Trip Reduction Program

Market Commute Trip Reduction Option

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.4013	39.2407	25.5194	0.1521	10.3841	0.0557	10.4399	2.7755	0.0518	2.8273		15,743.5925	15,743.5925	0.8911		15,765.8689
Unmitigated	4.5336	39.8716	29.3163	0.1756	12.9802	0.0650	13.0451	3.4694	0.0604	3.5298		18,146.7496	18,146.7496	0.9450		18,170.3747

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hospital	2,626.00	2,022.14	1769.87	2,215,490	1,772,392
Medical Office Building	3,306.00	819.87	141.83	2,789,189	2,231,351
Total	5,932.00	2,842.01	1,911.70	5,004,679	4,003,744

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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Hospital	0.00	2.52	0.00	0.00	100.00	0.00	100	0	0
Medical Office Building	0.00	3.07	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.565475	0.033834	0.192058	0.100675	0.009211	0.004032	0.016699	0.069908	0.001423	0.001062	0.004327	0.000756	0.000539
Hospital	0.565475	0.033834	0.192058	0.100675	0.009211	0.004032	0.016699	0.069908	0.001423	0.001062	0.004327	0.000756	0.000539
Medical Office Building	0.565475	0.033834	0.192058	0.100675	0.009211	0.004032	0.016699	0.069908	0.001423	0.001062	0.004327	0.000756	0.000539

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.0383	9.4386	7.9284	0.0566		0.7173	0.7173		0.7173	0.7173		11,326.3497	11,326.3497	0.2171	0.2077	11,393.6566
NaturalGas Unmitigated	1.4832	13.4838	11.3264	0.0809		1.0248	1.0248		1.0248	1.0248		16,180.4996	16,180.4996	0.3101	0.2966	16,276.6522

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	lb/day										lb/day					
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
Hospital	137534	1.4832	13.4838	11.3264	0.0809		1.0248	1.0248		1.0248	1.0248		16,180.4996	16,180.4996	0.3101	0.2966	16,276.6522
Medical Office Building	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
Total		**1.4832**	**13.4838**	**11.3264**	**0.0809**		**1.0248**	**1.0248**		**1.0248**	**1.0248**		**16,180.4996**	**16,180.4996**	**0.3101**	**0.2966**	**16,276.6522**

5.2 Energy by Land Use - NaturalGas

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	lb/day										lb/day					
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
Hospital	96.274	1.0383	9.4386	7.9284	0.0566		0.7173	0.7173		0.7173	0.7173		11,326.3497	11,326.3497	0.2171	0.2077	11,393.6566
Medical Office Building	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
Total		**1.0383**	**9.4386**	**7.9284**	**0.0566**		**0.7173**	**0.7173**		**0.7173**	**0.7173**		**11,326.3497**	**11,326.3497**	**0.2171**	**0.2077**	**11,393.6566**

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	lb/day										lb/day					
Mitigated	10.0161	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493
Unmitigated	10.0161	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493

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	lb/day										lb/day					
Architectural Coating	0.6151					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.3910					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.9400e-003	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493
Total	**10.0161**	**9.8000e-004**	**0.1086**	**1.0000e-005**		**3.9000e-004**	**3.9000e-004**		**3.9000e-004**	**3.9000e-004**		**0.2342**	**0.2342**	**6.0000e-004**		**0.2493**

6.2 Area by SubCategory

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	lb/day										lb/day					
Architectural Coating	0.6151					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.3910					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.9400e-003	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493
Total	**10.0161**	**9.8000e-004**	**0.1086**	**1.0000e-005**		**3.9000e-004**	**3.9000e-004**		**3.9000e-004**	**3.9000e-004**		**0.2342**	**0.2342**	**6.0000e-004**		**0.2493**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Kaiser Moreno Valley - Phase III

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	375.00	1000sqft	8.61	375,000.00	0
Medical Office Building	95.00	1000sqft	2.18	95,000.00	0
Enclosed Parking with Elevator	600.00	Space	5.40	240,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2035
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	238.86	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - In accordance with SB 100 goal of 100% renewable by 2045.

Land Use - Based on project description.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.
Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - Based on applicant provided information. Grading is balanced onsite.

On-road Fugitive Dust - CalEEMod defaults.

Grading - CalEEMod defaults.

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Based on trip gen for Phase III.

Road Dust - CalEEMod defaults.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults for electricity. Natural gas based on applicant provided information.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - water 3x daily and vehicle speed limit of 15 mph on unpaved roads.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation - All LED lighting. Compliance with 2019 Title 24.

Water Mitigation -

Waste Mitigation - In accordance with AB 939.

Kaiser Moreno Valley - Phase III - Riverside-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblEnergyUse	LightingElect	4.52	0.00
tblEnergyUse	LightingElect	3.66	0.00
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tblEnergyUse	T24E	3.07	0.00
tblEnergyUse	T24NG	69.49	133.87
tblEnergyUse	T24NG	3.47	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
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tblTripsAndVMT	HaulingTripNumber	0.00	96.00

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tblVehicleTrips	CC_TTP	51.40	100.00
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tblVehicleTrips	CW_TL	16.60	0.00
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tblVehicleTrips	PR_TP	73.00	100.00
tblVehicleTrips	PR_TP	60.00	100.00
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tblVehicleTrips	SU_TR	8.91	4.72
tblVehicleTrips	SU_TR	1.55	1.49
tblVehicleTrips	WD_TR	13.22	7.00
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2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2032	3.1408	17.0864	26.5937	0.1152	4.2069	0.3718	4.4282	1.1210	0.3709	1.3411	0.0000	11,441.4003	11,441.4003	0.4140	0.0000	11,451.7505
2033	2.5487	13.3981	26.3354	0.0733	4.1849	0.2204	4.4053	1.1156	0.2193	1.3349	0.0000	7,028.3052	7,028.3052	0.2285	0.0000	7,034.0180
2034	56.4578	13.3629	26.0955	0.0729	4.1974	0.2195	4.4170	1.1187	0.2185	1.3372	0.0000	6,992.3928	6,992.3928	0.2257	0.0000	6,998.0354
2035	56.4287	1.6605	3.9836	8.3400e-003	0.3481	0.0209	0.3690	0.0926	0.0208	0.1134	0.0000	806.0367	806.0367	0.0251	0.0000	806.6650
Maximum	**56.4578**	**17.0864**	**26.5937**	**0.1152**	**4.2069**	**0.3718**	**4.4282**	**1.1210**	**0.3709**	**1.3411**	**0.0000**	**11,441.4003**	**11,441.4003**	**0.4140**	**0.0000**	**11,451.7505**

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2032	1.4004	9.0210	31.3469	0.1152	4.2069	0.1076	4.2750	1.1210	0.1067	1.1879	0.0000	11,441.4003	11,441.4003	0.4140	0.0000	11,451.7505
2033	1.3453	8.9800	28.2554	0.0733	4.1849	0.0671	4.2520	1.1156	0.0660	1.1816	0.0000	7,028.3052	7,028.3052	0.2285	0.0000	7,034.0180
2034	56.2557	8.9448	28.0154	0.0729	4.1974	0.0663	4.2637	1.1187	0.0652	1.1839	0.0000	6,992.3928	6,992.3928	0.2257	0.0000	6,998.0354
2035	56.2524	0.4025	4.0598	8.3400e-003	0.3481	9.0100e-003	0.3571	0.0926	8.9300e-003	0.1015	0.0000	806.0367	806.0367	0.0251	0.0000	806.6650
Maximum	**56.2557**	**9.0210**	**31.3469**	**0.1152**	**4.2069**	**0.1076**	**4.2750**	**1.1210**	**0.1067**	**1.1879**	**0.0000**	**11,441.4003**	**11,441.4003**	**0.4140**	**0.0000**	**11,451.7505**

	ROG	NOx	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	**2.80**	**39.90**	**-10.44**	**0.00**	**0.00**	**69.97**	**3.46**	**0.00**	**70.24**	**11.43**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	lb/day										lb/day					
Area	10.0161	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493
Energy	1.4832	13.4838	11.3264	0.0809		1.0248	1.0248		1.0248	1.0248		16,180.4996	16,180.4996	0.3101	0.2966	16,276.6522
Mobile	3.6718	38.9291	27.9597	0.1608	12.9802	0.0657	13.0458	3.4694	0.0611	3.5305		16,629.3800	16,629.3800	1.0261		16,655.0326
Total	**15.1711**	**52.4139**	**39.3947**	**0.2417**	**12.9802**	**1.0908**	**14.0710**	**3.4694**	**1.0863**	**4.5557**		**32,810.1138**	**32,810.1138**	**1.3368**	**0.2966**	**32,931.9341**

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	lb/day										lb/day					
Area	10.0161	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493
Energy	1.0383	9.4386	7.9284	0.0566		0.7173	0.7173		0.7173	0.7173		11,326.3497	11,326.3497	0.2171	0.2077	11,393.6566
Mobile	3.5448	38.2652	24.8920	0.1389	10.3841	0.0565	10.4406	2.7755	0.0525	2.8280		14,381.1867	14,381.1867	0.9744		14,405.5458
Total	**14.5992**	**47.7048**	**32.9291**	**0.1955**	**10.3841**	**0.7742**	**11.1583**	**2.7755**	**0.7703**	**3.5458**		**25,707.7706**	**25,707.7706**	**1.1921**	**0.2077**	**25,799.4516**

	ROG	NOx	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	**3.77**	**8.98**	**16.41**	**19.11**	**20.00**	**29.03**	**20.70**	**20.00**	**29.09**	**22.17**	**0.00**	**21.65**	**21.65**	**10.83**	**30.00**	**21.66**

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	1/1/2032	3/24/2032	5	60	
2	Site Preparation	Site Preparation	3/25/2032	6/2/2032	5	50	
3	Grading	Grading	6/3/2032	8/11/2032	5	50	
4	Building Construction	Building Construction	8/12/2032	7/12/2034	5	500	
5	Trenching	Trenching	7/13/2034	11/15/2034	5	90	
6	Paving	Paving	11/16/2034	12/13/2034	5	20	
7	Architectural Coating	Architectural Coating	12/14/2034	2/7/2035	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 5.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 705,000; Non-Residential Outdoor: 235,000; Striped Parking Area: 14,400 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crawler Tractors	3	8.00	212	0.43
Demolition	Excavators	0	8.00	158	0.38

Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	3	8.00	203	0.36
Demolition	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Other Construction Equipment	1	8.00	172	0.42
Building Construction	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	4	8.00	46	0.45
Trenching	Excavators	1	8.00	158	0.38
Trenching	Rollers	1	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38

Architectural Coating	Air Compressors	2	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	10	80.00	4.00	2,000.00	14.70	6.90	40.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	40.00	4.00	120.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	30.00	4.00	1,300.00	14.70	6.90	0.50	LD_Mix	HDT_Mix	HHDT
Building Construction	10	350.00	40.00	280.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	60.00	4.00	96.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	24.00	2.00	200.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	30.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 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	lb/day										lb/day					
Off-Road	2.7644	11.9696	19.6031	0.0673		0.3540	0.3540		0.3540	0.3540		6,377.4845	6,377.4845	0.2413		6,383.5171
Total	**2.7644**	**11.9696**	**19.6031**	**0.0673**		**0.3540**	**0.3540**		**0.3540**	**0.3540**		**6,377.4845**	**6,377.4845**	**0.2413**		**6,383.5171**

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	lb/day										lb/day					
Hauling	0.1782	4.7910	1.6650	0.0415	1.1647	0.0145	1.1792	0.3192	0.0138	0.3330		4,423.8652	4,423.8652	0.1612		4,427.8949
Vendor	6.2500e-003	0.2420	0.0534	9.3000e-004	0.0256	2.5000e-004	0.0259	7.3700e-003	2.4000e-004	7.6100e-003		98.3789	98.3789	5.0000e-003		98.5039
Worker	0.1919	0.0838	1.1421	5.4200e-003	0.8942	3.1300e-003	0.8973	0.2372	2.8800e-003	0.2400		541.6718	541.6718	6.5200e-003		541.8347
Total	**0.3764**	**5.1168**	**2.8604**	**0.0479**	**2.0846**	**0.0178**	**2.1024**	**0.5637**	**0.0170**	**0.5806**		**5,063.9159**	**5,063.9159**	**0.1727**		**5,068.2334**

3.2 Demolition - 2032

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	lb/day										lb/day					
Off-Road	0.6733	2.9177	28.4865	0.0673		0.0898	0.0898		0.0898	0.0898	0.0000	6,377.4845	6,377.4845	0.2413		6,383.5171
Total	**0.6733**	**2.9177**	**28.4865**	**0.0673**		**0.0898**	**0.0898**		**0.0898**	**0.0898**	**0.0000**	**6,377.4845**	**6,377.4845**	**0.2413**		**6,383.5171**

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	lb/day										lb/day					
Hauling	0.1782	4.7910	1.6650	0.0415	1.1647	0.0145	1.1792	0.3192	0.0138	0.3330		4,423.8652	4,423.8652	0.1612		4,427.8949
Vendor	6.2500e-003	0.2420	0.0534	9.3000e-004	0.0256	2.5000e-004	0.0259	7.3700e-003	2.4000e-004	7.6100e-003		98.3789	98.3789	5.0000e-003		98.5039
Worker	0.1919	0.0838	1.1421	5.4200e-003	0.8942	3.1300e-003	0.8973	0.2372	2.8800e-003	0.2400		541.6718	541.6718	6.5200e-003		541.8347
Total	**0.3764**	**5.1168**	**2.8604**	**0.0479**	**2.0846**	**0.0178**	**2.1024**	**0.5637**	**0.0170**	**0.5806**		**5,063.9159**	**5,063.9159**	**0.1727**		**5,068.2334**

3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6364	2.9809	6.2428	0.0157		0.0704	0.0704		0.0704	0.0704		1,487.9260	1,487.9260	0.0561		1,489.3279
Total	**0.6364**	**2.9809**	**6.2428**	**0.0157**	**0.0000**	**0.0704**	**0.0704**	**0.0000**	**0.0704**	**0.0704**		**1,487.9260**	**1,487.9260**	**0.0561**		**1,489.3279**

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	lb/day										lb/day					
Hauling	7.9800e-003	0.2666	0.0717	1.6300e-003	0.0420	5.3000e-004	0.0425	0.0115	5.1000e-004	0.0120		173.4256	173.4256	8.0300e-003		173.6263
Vendor	6.2500e-003	0.2420	0.0534	9.3000e-004	0.0256	2.5000e-004	0.0259	7.3700e-003	2.4000e-004	7.6100e-003		98.3789	98.3789	5.0000e-003		98.5039
Worker	0.0960	0.0419	0.5710	2.7100e-003	0.4471	1.5700e-003	0.4487	0.1186	1.4400e-003	0.1200		270.8359	270.8359	3.2600e-003		270.9173
Total	**0.1102**	**0.5505**	**0.6961**	**5.2700e-003**	**0.5147**	**2.3500e-003**	**0.5170**	**0.1374**	**2.1900e-003**	**0.1396**		**542.6403**	**542.6403**	**0.0163**		**543.0475**

3.3 Site Preparation - 2032

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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1571	0.6807	7.6590	0.0157		0.0210	0.0210		0.0210	0.0210	0.0000	1,487.9260	1,487.9260	0.0561		1,489.3279
Total	**0.1571**	**0.6807**	**7.6590**	**0.0157**	**0.0000**	**0.0210**	**0.0210**	**0.0000**	**0.0210**	**0.0210**	**0.0000**	**1,487.9260**	**1,487.9260**	**0.0561**		**1,489.3279**

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	lb/day										lb/day					
Hauling	7.9800e-003	0.2666	0.0717	1.6300e-003	0.0420	5.3000e-004	0.0425	0.0115	5.1000e-004	0.0120		173.4256	173.4256	8.0300e-003		173.6263
Vendor	6.2500e-003	0.2420	0.0534	9.3000e-004	0.0256	2.5000e-004	0.0259	7.3700e-003	2.4000e-004	7.6100e-003		98.3789	98.3789	5.0000e-003		98.5039
Worker	0.0960	0.0419	0.5710	2.7100e-003	0.4471	1.5700e-003	0.4487	0.1186	1.4400e-003	0.1200		270.8359	270.8359	3.2600e-003		270.9173
Total	**0.1102**	**0.5505**	**0.6961**	**5.2700e-003**	**0.5147**	**2.3500e-003**	**0.5170**	**0.1374**	**2.1900e-003**	**0.1396**		**542.6403**	**542.6403**	**0.0163**		**543.0475**

3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.4129	5.3235	12.4279	0.0373		0.1720	0.1720		0.1720	0.1720		3,535.6410	3,535.6410	0.1244		3,538.7503
Total	**1.4129**	**5.3235**	**12.4279**	**0.0373**	**1.5908**	**0.1720**	**1.7627**	**0.1718**	**0.1720**	**0.3438**		**3,535.6410**	**3,535.6410**	**0.1244**		**3,538.7503**

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	lb/day										lb/day					
Hauling	0.0352	2.0610	0.2680	3.2600e-003	0.0119	3.5000e-004	0.0123	3.3100e-003	3.3000e-004	3.6400e-003		346.2346	346.2346	0.0493		347.4663
Vendor	6.2500e-003	0.2420	0.0534	9.3000e-004	0.0256	2.5000e-004	0.0259	7.3700e-003	2.4000e-004	7.6100e-003		98.3789	98.3789	5.0000e-003		98.5039
Worker	0.0720	0.0314	0.4283	2.0300e-003	0.3353	1.1700e-003	0.3365	0.0889	1.0800e-003	0.0900		203.1269	203.1269	2.4400e-003		203.1880
Total	**0.1134**	**2.3345**	**0.7497**	**6.2200e-003**	**0.3728**	**1.7700e-003**	**0.3746**	**0.0996**	**1.6500e-003**	**0.1013**		**647.7405**	**647.7405**	**0.0567**		**649.1582**

3.4 Grading - 2032

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	lb/day										lb/day					
Fugitive Dust					0.6204	0.0000	0.6204	0.0670	0.0000	0.0670			0.0000			0.0000
Off-Road	0.3733	1.6176	17.0293	0.0373		0.0498	0.0498		0.0498	0.0498	0.0000	3,535.6410	3,535.6410	0.1244		3,538.7503
Total	**0.3733**	**1.6176**	**17.0293**	**0.0373**	**0.6204**	**0.0498**	**0.6702**	**0.0670**	**0.0498**	**0.1168**	**0.0000**	**3,535.6410**	**3,535.6410**	**0.1244**		**3,538.7503**

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	lb/day										lb/day					
Hauling	0.0352	2.0610	0.2680	3.2600e-003	0.0119	3.5000e-004	0.0123	3.3100e-003	3.3000e-004	3.6400e-003		346.2346	346.2346	0.0493		347.4663
Vendor	6.2500e-003	0.2420	0.0534	9.3000e-004	0.0256	2.5000e-004	0.0259	7.3700e-003	2.4000e-004	7.6100e-003		98.3789	98.3789	5.0000e-003		98.5039
Worker	0.0720	0.0314	0.4283	2.0300e-003	0.3353	1.1700e-003	0.3365	0.0889	1.0800e-003	0.0900		203.1269	203.1269	2.4400e-003		203.1880
Total	**0.1134**	**2.3345**	**0.7497**	**6.2200e-003**	**0.3728**	**1.7700e-003**	**0.3746**	**0.0996**	**1.6500e-003**	**0.1013**		**647.7405**	**647.7405**	**0.0567**		**649.1582**

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	lb/day										lb/day					
Off-Road	1.6998	10.5903	21.0464	0.0403		0.2050	0.2050		0.2050	0.2050		3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**1.6998**	**10.5903**	**21.0464**	**0.0403**		**0.2050**	**0.2050**		**0.2050**	**0.2050**		**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	1.8600e-003	0.0622	0.0167	3.8000e-004	0.0387	1.2000e-004	0.0388	9.7700e-003	1.2000e-004	9.8900e-003		40.4660	40.4660	1.8700e-003		40.5128
Vendor	0.0625	2.4199	0.5340	9.3100e-003	0.2561	2.4700e-003	0.2585	0.0737	2.3600e-003	0.0761		983.7891	983.7891	0.0500		985.0387
Worker	0.8396	0.3666	4.9965	0.0237	3.9122	0.0137	3.9259	1.0375	0.0126	1.0501		2,369.8139	2,369.8139	0.0285		2,370.5266
Total	**0.9040**	**2.8487**	**5.5473**	**0.0334**	**4.2069**	**0.0163**	**4.2232**	**1.1210**	**0.0151**	**1.1361**		**3,394.0689**	**3,394.0689**	**0.0804**		**3,396.0781**

3.5 Building Construction - 2032

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	lb/day										lb/day					
Off-Road	0.4964	6.1723	22.9664	0.0403		0.0518	0.0518		0.0518	0.0518	0.0000	3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**0.4964**	**6.1723**	**22.9664**	**0.0403**		**0.0518**	**0.0518**		**0.0518**	**0.0518**	**0.0000**	**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	1.8600e-003	0.0622	0.0167	3.8000e-004	0.0387	1.2000e-004	0.0388	9.7700e-003	1.2000e-004	9.8900e-003		40.4660	40.4660	1.8700e-003		40.5128
Vendor	0.0625	2.4199	0.5340	9.3100e-003	0.2561	2.4700e-003	0.2585	0.0737	2.3600e-003	0.0761		983.7891	983.7891	0.0500		985.0387
Worker	0.8396	0.3666	4.9965	0.0237	3.9122	0.0137	3.9259	1.0375	0.0126	1.0501		2,369.8139	2,369.8139	0.0285		2,370.5266
Total	**0.9040**	**2.8487**	**5.5473**	**0.0334**	**4.2069**	**0.0163**	**4.2232**	**1.1210**	**0.0151**	**1.1361**		**3,394.0689**	**3,394.0689**	**0.0804**		**3,396.0781**

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	lb/day										lb/day					
Off-Road	1.6998	10.5903	21.0464	0.0403		0.2050	0.2050		0.2050	0.2050		3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**1.6998**	**10.5903**	**21.0464**	**0.0403**		**0.2050**	**0.2050**		**0.2050**	**0.2050**		**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	1.8600e-003	0.0618	0.0168	3.8000e-004	0.0166	1.2000e-004	0.0168	4.3600e-003	1.2000e-004	4.4800e-003		40.4118	40.4118	1.8500e-003		40.4580
Vendor	0.0623	2.4051	0.5329	9.3000e-003	0.2561	2.4500e-003	0.2585	0.0737	2.3400e-003	0.0761		982.7449	982.7449	0.0490		983.9702
Worker	0.7847	0.3409	4.7393	0.0233	3.9122	0.0128	3.9250	1.0375	0.0118	1.0493		2,329.1845	2,329.1845	0.0264		2,329.8443
Total	**0.8489**	**2.8078**	**5.2890**	**0.0330**	**4.1849**	**0.0154**	**4.2002**	**1.1156**	**0.0142**	**1.1299**		**3,352.3411**	**3,352.3411**	**0.0773**		**3,354.2725**

3.5 Building Construction - 2033

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	lb/day										lb/day					
Off-Road	0.4964	6.1723	22.9664	0.0403		0.0518	0.0518		0.0518	0.0518	0.0000	3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**0.4964**	**6.1723**	**22.9664**	**0.0403**		**0.0518**	**0.0518**		**0.0518**	**0.0518**	**0.0000**	**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	1.8600e-003	0.0618	0.0168	3.8000e-004	0.0166	1.2000e-004	0.0168	4.3600e-003	1.2000e-004	4.4800e-003		40.4118	40.4118	1.8500e-003		40.4580
Vendor	0.0623	2.4051	0.5329	9.3000e-003	0.2561	2.4500e-003	0.2585	0.0737	2.3400e-003	0.0761		982.7449	982.7449	0.0490		983.9702
Worker	0.7847	0.3409	4.7393	0.0233	3.9122	0.0128	3.9250	1.0375	0.0118	1.0493		2,329.1845	2,329.1845	0.0264		2,329.8443
Total	**0.8489**	**2.8078**	**5.2890**	**0.0330**	**4.1849**	**0.0154**	**4.2002**	**1.1156**	**0.0142**	**1.1299**		**3,352.3411**	**3,352.3411**	**0.0773**		**3,354.2725**

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	lb/day										lb/day					
Off-Road	1.6998	10.5903	21.0464	0.0403		0.2050	0.2050		0.2050	0.2050		3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**1.6998**	**10.5903**	**21.0464**	**0.0403**		**0.2050**	**0.2050**		**0.2050**	**0.2050**		**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	1.8600e-003	0.0613	0.0169	3.8000e-004	0.0292	1.2000e-004	0.0293	7.4500e-003	1.2000e-004	7.5700e-003		40.3689	40.3689	1.8300e-003		40.4146
Vendor	0.0622	2.3916	0.5319	9.2900e-003	0.2561	2.4300e-003	0.2585	0.0737	2.3200e-003	0.0760		981.9711	981.9711	0.0482		983.1753
Worker	0.7389	0.3196	4.5003	0.0230	3.9122	0.0120	3.9242	1.0375	0.0110	1.0486		2,294.0887	2,294.0887	0.0245		2,294.7001
Total	**0.8029**	**2.7726**	**5.0491**	**0.0326**	**4.1974**	**0.0145**	**4.2120**	**1.1187**	**0.0135**	**1.1322**		**3,316.4287**	**3,316.4287**	**0.0745**		**3,318.2899**

3.5 Building Construction - 2034

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	lb/day										lb/day					
Off-Road	0.4964	6.1723	22.9664	0.0403		0.0518	0.0518		0.0518	0.0518	0.0000	3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**0.4964**	**6.1723**	**22.9664**	**0.0403**		**0.0518**	**0.0518**		**0.0518**	**0.0518**	**0.0000**	**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	1.8600e-003	0.0613	0.0169	3.8000e-004	0.0292	1.2000e-004	0.0293	7.4500e-003	1.2000e-004	7.5700e-003		40.3689	40.3689	1.8300e-003		40.4146
Vendor	0.0622	2.3916	0.5319	9.2900e-003	0.2561	2.4300e-003	0.2585	0.0737	2.3200e-003	0.0760		981.9711	981.9711	0.0482		983.1753
Worker	0.7389	0.3196	4.5003	0.0230	3.9122	0.0120	3.9242	1.0375	0.0110	1.0486		2,294.0887	2,294.0887	0.0245		2,294.7001
Total	**0.8029**	**2.7726**	**5.0491**	**0.0326**	**4.1974**	**0.0145**	**4.2120**	**1.1187**	**0.0135**	**1.1322**		**3,316.4287**	**3,316.4287**	**0.0745**		**3,318.2899**

3.6 Trenching - 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	lb/day										lb/day					
Off-Road	0.7302	3.6574	10.2017	0.0172		0.0977	0.0977		0.0977	0.0977		1,625.9438	1,625.9438	0.0650		1,627.5683
Total	**0.7302**	**3.6574**	**10.2017**	**0.0172**		**0.0977**	**0.0977**		**0.0977**	**0.0977**		**1,625.9438**	**1,625.9438**	**0.0650**		**1,627.5683**

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	lb/day										lb/day					
Hauling	3.5400e-003	0.1168	0.0322	7.2000e-004	0.0187	2.3000e-004	0.0189	5.1100e-003	2.2000e-004	5.3300e-003		76.8932	76.8932	3.4800e-003		76.9801
Vendor	6.2100e-003	0.2392	0.0532	9.3000e-004	0.0256	2.4000e-004	0.0259	7.3700e-003	2.3000e-004	7.6000e-003		98.1971	98.1971	4.8200e-003		98.3175
Worker	0.1267	0.0548	0.7715	3.9400e-003	0.6707	2.0500e-003	0.6727	0.1779	1.8900e-003	0.1798		393.2723	393.2723	4.1900e-003		393.3772
Total	**0.1364**	**0.4108**	**0.8569**	**5.5900e-003**	**0.7149**	**2.5200e-003**	**0.7174**	**0.1903**	**2.3400e-003**	**0.1927**		**568.3626**	**568.3626**	**0.0125**		**568.6748**

3.6 Trenching - 2034

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	lb/day										lb/day					
Off-Road	0.1717	0.7439	10.5860	0.0172		0.0229	0.0229		0.0229	0.0229	0.0000	1,625.9438	1,625.9438	0.0650		1,627.5683
Total	**0.1717**	**0.7439**	**10.5860**	**0.0172**		**0.0229**	**0.0229**		**0.0229**	**0.0229**	**0.0000**	**1,625.9438**	**1,625.9438**	**0.0650**		**1,627.5683**

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	lb/day										lb/day					
Hauling	3.5400e-003	0.1168	0.0322	7.2000e-004	0.0187	2.3000e-004	0.0189	5.1100e-003	2.2000e-004	5.3300e-003		76.8932	76.8932	3.4800e-003		76.9801
Vendor	6.2100e-003	0.2392	0.0532	9.3000e-004	0.0256	2.4000e-004	0.0259	7.3700e-003	2.3000e-004	7.6000e-003		98.1971	98.1971	4.8200e-003		98.3175
Worker	0.1267	0.0548	0.7715	3.9400e-003	0.6707	2.0500e-003	0.6727	0.1779	1.8900e-003	0.1798		393.2723	393.2723	4.1900e-003		393.3772
Total	**0.1364**	**0.4108**	**0.8569**	**5.5900e-003**	**0.7149**	**2.5200e-003**	**0.7174**	**0.1903**	**2.3400e-003**	**0.1927**		**568.3626**	**568.3626**	**0.0125**		**568.6748**

3.7 Paving - 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	lb/day										lb/day					
Off-Road	0.6923	3.5601	7.9248	0.0140		0.1653	0.1653		0.1653	0.1653		1,328.2584	1,328.2584	0.0623		1,329.8151
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6923**	**3.5601**	**7.9248**	**0.0140**		**0.1653**	**0.1653**		**0.1653**	**0.1653**		**1,328.2584**	**1,328.2584**	**0.0623**		**1,329.8151**

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	lb/day										lb/day					
Hauling	0.0332	1.0953	0.3020	6.7700e-003	0.1748	2.1700e-003	0.1770	0.0479	2.0800e-003	0.0500		720.8733	720.8733	0.0326		721.6885
Vendor	3.1100e-003	0.1196	0.0266	4.6000e-004	0.0128	1.2000e-004	0.0129	3.6900e-003	1.2000e-004	3.8000e-003		49.0986	49.0986	2.4100e-003		49.1588
Worker	0.0507	0.0219	0.3086	1.5700e-003	0.2683	8.2000e-004	0.2691	0.0711	7.6000e-004	0.0719		157.3089	157.3089	1.6800e-003		157.3509
Total	**0.0869**	**1.2368**	**0.6372**	**8.8000e-003**	**0.4559**	**3.1100e-003**	**0.4590**	**0.1227**	**2.9600e-003**	**0.1257**		**927.2808**	**927.2808**	**0.0367**		**928.1981**

3.7 Paving - 2034

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	lb/day										lb/day					
Off-Road	0.1402	0.6077	8.6478	0.0140		0.0187	0.0187		0.0187	0.0187	0.0000	1,328.2584	1,328.2584	0.0623		1,329.8151
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1402**	**0.6077**	**8.6478**	**0.0140**		**0.0187**	**0.0187**		**0.0187**	**0.0187**	**0.0000**	**1,328.2584**	**1,328.2584**	**0.0623**		**1,329.8151**

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	lb/day										lb/day					
Hauling	0.0332	1.0953	0.3020	6.7700e-003	0.1748	2.1700e-003	0.1770	0.0479	2.0800e-003	0.0500		720.8733	720.8733	0.0326		721.6885
Vendor	3.1100e-003	0.1196	0.0266	4.6000e-004	0.0128	1.2000e-004	0.0129	3.6900e-003	1.2000e-004	3.8000e-003		49.0986	49.0986	2.4100e-003		49.1588
Worker	0.0507	0.0219	0.3086	1.5700e-003	0.2683	8.2000e-004	0.2691	0.0711	7.6000e-004	0.0719		157.3089	157.3089	1.6800e-003		157.3509
Total	**0.0869**	**1.2368**	**0.6372**	**8.8000e-003**	**0.4559**	**3.1100e-003**	**0.4590**	**0.1227**	**2.9600e-003**	**0.1257**		**927.2808**	**927.2808**	**0.0367**		**928.1981**

3.8 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	56.1299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2615	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656
Total	**56.3913**	**1.7126**	**3.5955**	**5.9400e-003**		**0.0406**	**0.0406**		**0.0406**	**0.0406**		**562.8961**	**562.8961**	**0.0228**		**563.4656**

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	lb/day										lb/day					
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
Vendor	3.1100e-003	0.1196	0.0266	4.6000e-004	0.0128	1.2000e-004	0.0129	3.6900e-003	1.2000e-004	3.8000e-003		49.0986	49.0986	2.4100e-003		49.1588
Worker	0.0633	0.0274	0.3857	1.9700e-003	0.3353	1.0300e-003	0.3364	0.0889	9.4000e-004	0.0899		196.6362	196.6362	2.1000e-003		196.6886
Total	**0.0664**	**0.1470**	**0.4123**	**2.4300e-003**	**0.3481**	**1.1500e-003**	**0.3493**	**0.0926**	**1.0600e-003**	**0.0937**		**245.7347**	**245.7347**	**4.5100e-003**		**245.8474**

3.8 Architectural Coating - 2034

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	lb/day										lb/day					
Archit. Coating	56.1299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0228		563.4656
Total	**56.1893**	**0.2575**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0228**		**563.4656**

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	lb/day										lb/day					
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
Vendor	3.1100e-003	0.1196	0.0266	4.6000e-004	0.0128	1.2000e-004	0.0129	3.6900e-003	1.2000e-004	3.8000e-003		49.0986	49.0986	2.4100e-003		49.1588
Worker	0.0633	0.0274	0.3857	1.9700e-003	0.3353	1.0300e-003	0.3364	0.0889	9.4000e-004	0.0899		196.6362	196.6362	2.1000e-003		196.6886
Total	**0.0664**	**0.1470**	**0.4123**	**2.4300e-003**	**0.3481**	**1.1500e-003**	**0.3493**	**0.0926**	**1.0600e-003**	**0.0937**		**245.7347**	**245.7347**	**4.5100e-003**		**245.8474**

3.8 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	56.1299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161
Total	**56.3656**	**1.5155**	**3.5886**	**5.9400e-003**		**0.0198**	**0.0198**		**0.0198**	**0.0198**		**562.8961**	**562.8961**	**0.0208**		**563.4161**

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	lb/day										lb/day					
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
Vendor	3.1000e-003	0.1190	0.0266	4.6000e-004	0.0128	1.2000e-004	0.0129	3.6900e-003	1.2000e-004	3.8000e-003		49.0626	49.0626	2.3700e-003		49.1218
Worker	0.0600	0.0260	0.3684	1.9400e-003	0.3353	9.6000e-004	0.3363	0.0889	8.9000e-004	0.0898		194.0781	194.0781	1.9600e-003		194.1270
Total	**0.0631**	**0.1450**	**0.3950**	**2.4000e-003**	**0.3481**	**1.0800e-003**	**0.3492**	**0.0926**	**1.0100e-003**	**0.0936**		**243.1406**	**243.1406**	**4.3300e-003**		**243.2489**

3.8 Architectural Coating - 2035

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	lb/day										lb/day					
Archit. Coating	56.1299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0208		563.4161
Total	**56.1893**	**0.2575**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0208**		**563.4161**

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	lb/day										lb/day					
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
Vendor	3.1000e-003	0.1190	0.0266	4.6000e-004	0.0128	1.2000e-004	0.0129	3.6900e-003	1.2000e-004	3.8000e-003		49.0626	49.0626	2.3700e-003		49.1218
Worker	0.0600	0.0260	0.3684	1.9400e-003	0.3353	9.6000e-004	0.3363	0.0889	8.9000e-004	0.0898		194.0781	194.0781	1.9600e-003		194.1270
Total	**0.0631**	**0.1450**	**0.3950**	**2.4000e-003**	**0.3481**	**1.0800e-003**	**0.3492**	**0.0926**	**1.0100e-003**	**0.0936**		**243.1406**	**243.1406**	**4.3300e-003**		**243.2489**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Limit Parking Supply

Implement Trip Reduction Program

Market Commute Trip Reduction Option

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.5448	38.2652	24.8920	0.1389	10.3841	0.0565	10.4406	2.7755	0.0525	2.8280		14,381.1867	14,381.1867	0.9744		14,405.5458
Unmitigated	3.6718	38.9291	27.9597	0.1608	12.9802	0.0657	13.0458	3.4694	0.0611	3.5305		16,629.3800	16,629.3800	1.0261		16,655.0326

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hospital	2,626.00	2,022.14	1769.87	2,215,490	1,772,392
Medical Office Building	3,306.00	819.87	141.83	2,789,189	2,231,351
Total	5,932.00	2,842.01	1,911.70	5,004,679	4,003,744

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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Hospital	0.00	2.52	0.00	0.00	100.00	0.00	100	0	0
Medical Office Building	0.00	3.07	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.565475	0.033834	0.192058	0.100675	0.009211	0.004032	0.016699	0.069908	0.001423	0.001062	0.004327	0.000756	0.000539
Hospital	0.565475	0.033834	0.192058	0.100675	0.009211	0.004032	0.016699	0.069908	0.001423	0.001062	0.004327	0.000756	0.000539
Medical Office Building	0.565475	0.033834	0.192058	0.100675	0.009211	0.004032	0.016699	0.069908	0.001423	0.001062	0.004327	0.000756	0.000539

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.0383	9.4386	7.9284	0.0566		0.7173	0.7173		0.7173	0.7173		11,326.3497	11,326.3497	0.2171	0.2077	11,393.6566
NaturalGas Unmitigated	1.4832	13.4838	11.3264	0.0809		1.0248	1.0248		1.0248	1.0248		16,180.4996	16,180.4996	0.3101	0.2966	16,276.6522

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	lb/day										lb/day					
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
Hospital	137534	1.4832	13.4838	11.3264	0.0809		1.0248	1.0248		1.0248	1.0248		16,180.4996	16,180.4996	0.3101	0.2966	16,276.6522
Medical Office Building	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
Total		**1.4832**	**13.4838**	**11.3264**	**0.0809**		**1.0248**	**1.0248**		**1.0248**	**1.0248**		**16,180.4996**	**16,180.4996**	**0.3101**	**0.2966**	**16,276.6522**

5.2 Energy by Land Use - NaturalGas

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	lb/day										lb/day					
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
Hospital	96.274	1.0383	9.4386	7.9284	0.0566		0.7173	0.7173		0.7173	0.7173		11,326.3497	11,326.3497	0.2171	0.2077	11,393.6566
Medical Office Building	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
Total		**1.0383**	**9.4386**	**7.9284**	**0.0566**		**0.7173**	**0.7173**		**0.7173**	**0.7173**		**11,326.3497**	**11,326.3497**	**0.2171**	**0.2077**	**11,393.6566**

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	lb/day										lb/day					
Mitigated	10.0161	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493
Unmitigated	10.0161	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493

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	lb/day										lb/day					
Architectural Coating	0.6151					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.3910					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.9400e-003	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493
Total	**10.0161**	**9.8000e-004**	**0.1086**	**1.0000e-005**		**3.9000e-004**	**3.9000e-004**		**3.9000e-004**	**3.9000e-004**		**0.2342**	**0.2342**	**6.0000e-004**		**0.2493**

6.2 Area by SubCategory

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	lb/day										lb/day					
Architectural Coating	0.6151					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.3910					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.9400e-003	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493
Total	**10.0161**	**9.8000e-004**	**0.1086**	**1.0000e-005**		**3.9000e-004**	**3.9000e-004**		**3.9000e-004**	**3.9000e-004**		**0.2342**	**0.2342**	**6.0000e-004**		**0.2493**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Kaiser Moreno Valley - Phase I LST

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	95.00	1000sqft	2.18	95,000.00	0
General Light Industry	22.00	1000sqft	0.51	22,000.00	0
Other Asphalt Surfaces	85.86	1000sqft	1.97	85,856.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	601.59	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on actual RPS for SCE in 2017.

Land Use - Based on project description.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.
Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - Based on applicant provided information.

On-road Fugitive Dust - CalEEMod defaults.

Grading - CalEEMod defaults. Import based on applicant provided information.

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Based on trip gen for Phase 1.

Road Dust - CalEEMod defaults.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - Based on applicant provided information.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - water 3x daily and vehicle speed limit of 15 mph on unpaved roads.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation - LED lighting.

Water Mitigation -

Waste Mitigation - In accordance with AB 939.

Kaiser Moreno Valley - Phase I LST - Riverside-South Coast County, Summer

Stationary Sources - Emergency Generators and Fire Pumps -
Stationary Sources - Process Boilers -

Stationary Sources - Emergency Generators and Fire Pumps EF - Based on Tier 4 Final standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	58,500.00	56,718.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	175,500.00	170,154.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
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tblConstructionPhase	NumDays	230.00	400.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	8.00	25.00
tblConstructionPhase	NumDays	18.00	20.00
tblConstructionPhase	NumDays	5.00	25.00
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	LightingElect	4.52	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24E	5.56	0.00
tblEnergyUse	NT24NG	17.13	0.00

tblEnergyUse	NT24NG	6.03	0.00
tblEnergyUse	T24E	2.20	0.00
tblEnergyUse	T24E	8.35	18.51
tblEnergyUse	T24NG	15.36	0.00
tblEnergyUse	T24NG	69.49	285.11
tblGrading	MaterialImported	0.00	6,000.00
tblLandUse	LandUseSquareFeet	85,860.00	85,856.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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tblOffRoadEquipment	UsageHours	8.00	7.00
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tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	601.59
tblSolidWaste	SolidWasteGenerationRate	27.28	25.10
tblSolidWaste	SolidWasteGenerationRate	1,026.00	1,006.45
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripNumber	0.00	400.00
tblTripsAndVMT	HaulingTripNumber	0.00	100.00
tblTripsAndVMT	HaulingTripNumber	750.00	900.00
tblTripsAndVMT	HaulingTripNumber	0.00	320.00
tblTripsAndVMT	HaulingTripNumber	0.00	96.00
tblTripsAndVMT	HaulingTripNumber	0.00	240.00

tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	33.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	30.00
tblTripsAndVMT	WorkerTripNumber	76.00	300.00
tblTripsAndVMT	WorkerTripNumber	10.00	60.00
tblTripsAndVMT	WorkerTripNumber	8.00	24.00

tblTripsAndVMT	WorkerTripNumber	15.00	30.00
tblVehicleTrips	CC_TL	8.40	0.19
tblVehicleTrips	CC_TTP	16.10	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	64.90	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	73.00	100.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	10.18	5.29
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	8.91	4.63
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	13.22	6.87
tblWater	IndoorWaterUseRate	5,087,500.00	4,680,500.00
tblWater	IndoorWaterUseRate	11,920,651.07	11,693,531.30
tblWater	OutdoorWaterUseRate	2,270,600.20	2,227,339.29

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2020	4.1583	44.7398	18.4678	0.0389	18.6042	2.1008	20.7050	9.9901	1.9327	11.9228	0.0000	3,765.6431	3,765.6431	1.2025	0.0000	3,795.7052
2021	2.4296	20.5442	17.9659	0.0388	0.0545	0.7653	0.8198	0.0151	0.7294	0.7445	0.0000	3,695.1730	3,695.1730	0.8716	0.0000	3,716.9626
2022	37.0953	18.3662	17.6131	0.0388	0.0552	0.6536	0.7088	0.0153	0.6233	0.6386	0.0000	3,690.1118	3,690.1118	0.8607	0.0000	3,711.6298
Maximum	**37.0953**	**44.7398**	**18.4678**	**0.0389**	**18.6042**	**2.1008**	**20.7050**	**9.9901**	**1.9327**	**11.9228**	**0.0000**	**3,765.6431**	**3,765.6431**	**1.2025**	**0.0000**	**3,795.7052**

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	lb/day										lb/day					
2020	0.9900	7.3361	21.4512	0.0389	7.2604	0.0621	7.3225	3.8974	0.0621	3.9595	0.0000	3,765.6431	3,765.6431	1.2025	0.0000	3,795.7052
2021	0.9481	7.2109	21.2815	0.0388	0.0545	0.0549	0.1094	0.0151	0.0547	0.0698	0.0000	3,695.1730	3,695.1730	0.8716	0.0000	3,716.9626
2022	36.7456	7.1217	21.1294	0.0388	0.0552	0.0546	0.1098	0.0153	0.0544	0.0697	0.0000	3,690.1118	3,690.1118	0.8607	0.0000	3,711.6298
Maximum	**36.7456**	**7.3361**	**21.4512**	**0.0389**	**7.2604**	**0.0621**	**7.3225**	**3.8974**	**0.0621**	**3.9595**	**0.0000**	**3,765.6431**	**3,765.6431**	**1.2025**	**0.0000**	**3,795.7052**

	ROG	NOx	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	**11.44**	**74.10**	**-18.16**	**0.00**	**60.62**	**95.12**	**66.08**	**60.80**	**94.79**	**69.19**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	lb/day										lb/day					
Area	2.5040	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473
Energy	0.8003	7.2752	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.2015	8,730.2015	0.1673	0.1601	8,782.0807
Mobile	0.7576	4.4037	2.2865	8.2700e-003	0.0963	4.1100e-003	0.1004	0.0258	3.8100e-003	0.0296		862.6058	862.6058	0.1136		865.4464
Stationary	2.1884	1.0731	5.5799	0.0105		0.0429	0.0429		0.0429	0.0429		1,119.4921	1,119.4921	0.1570		1,123.4159
Total	**6.2502**	**12.7521**	**13.9982**	**0.0624**	**0.0963**	**0.6000**	**0.6963**	**0.0258**	**0.5997**	**0.6255**		**10,712.3438**	**10,712.3438**	**0.4380**	**0.1601**	**10,770.9903**

2.2 Overall Operational

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	lb/day										lb/day					
Area	2.5040	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473
Energy	0.8003	7.2752	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.2015	8,730.2015	0.1673	0.1601	8,782.0807
Mobile	0.7561	4.3946	2.2399	8.0500e-003	0.0770	3.9900e-003	0.0810	0.0206	3.6900e-003	0.0243		840.2005	840.2005	0.1130		843.0265
Stationary	2.1884	1.0731	5.5799	0.0105		0.0429	0.0429		0.0429	0.0429		1,119.4921	1,119.4921	0.1570		1,123.4159
Total	**6.2488**	**12.7430**	**13.9516**	**0.0622**	**0.0770**	**0.5999**	**0.6769**	**0.0206**	**0.5996**	**0.6202**		**10,689.9385**	**10,689.9385**	**0.4374**	**0.1601**	**10,748.5704**

	ROG	NOx	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	**0.02**	**0.07**	**0.33**	**0.35**	**20.00**	**0.02**	**2.78**	**20.00**	**0.02**	**0.84**	**0.00**	**0.21**	**0.21**	**0.13**	**0.00**	**0.21**

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	6/1/2020	6/19/2020	5	15	
2	Site Preparation	Site Preparation	6/20/2020	7/24/2020	5	25	
3	Grading	Grading	7/25/2020	8/28/2020	5	25	
4	Building Construction	Building Construction	8/29/2020	3/11/2022	5	400	
5	Trenching	Trenching	3/12/2022	8/26/2022	5	120	
6	Paving	Paving	8/27/2022	9/23/2022	5	20	
7	Architectural Coating	Architectural Coating	9/24/2022	10/14/2022	5	15	

Acres of Grading (Site Preparation Phase): 12.5

Acres of Grading (Grading Phase): 25

Acres of Paving: 1.97

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 170,154; Non-Residential Outdoor: 56,718; Striped Parking Area: 5,151 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crawler Tractors	1	8.00	212	0.43
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Scrapers	0	8.00	367	0.48

Site Preparation	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Bore/Drill Rigs	1	8.00	221	0.50
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	0	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Trenching	Excavators	1	8.00	158	0.38
Trenching	Rollers	1	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Coating	Air Compressors	2	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	40.00	4.00	400.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Site Preparation	6	40.00	4.00	100.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Grading	5	30.00	4.00	900.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Building Construction	8	300.00	40.00	320.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Trenching	4	60.00	4.00	96.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Paving	3	24.00	2.00	240.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	30.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved 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	lb/day										lb/day					
Off-Road	1.8974	21.2003	16.2185	0.0327		0.9108	0.9108		0.8379	0.8379		3,166.6721	3,166.6721	1.0242		3,192.2763
Total	**1.8974**	**21.2003**	**16.2185**	**0.0327**		**0.9108**	**0.9108**		**0.8379**	**0.8379**		**3,166.6721**	**3,166.6721**	**1.0242**		**3,192.2763**

3.2 Demolition - 2020

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	lb/day										lb/day					
Hauling	0.0539	2.9401	0.2407	4.1000e-003	4.9900e-003	1.1900e-003	6.1800e-003	1.4200e-003	1.1400e-003	2.5600e-003		433.4887	433.4887	0.0903		435.7466
Vendor	6.2900e-003	0.2786	0.0476	3.3000e-004	8.1000e-004	1.8000e-004	9.9000e-004	2.4000e-004	1.7000e-004	4.1000e-004		34.8516	34.8516	7.1100e-003		35.0294
Worker	0.0630	0.0139	0.1853	1.5000e-004	6.1700e-003	2.9000e-004	6.4500e-003	1.6900e-003	2.6000e-004	1.9500e-003		14.6771	14.6771	9.9000e-004		14.7018
Total	**0.1232**	**3.2327**	**0.4736**	**4.5800e-003**	**0.0120**	**1.6600e-003**	**0.0136**	**3.3500e-003**	**1.5700e-003**	**4.9200e-003**		**483.0174**	**483.0174**	**0.0984**		**485.4778**

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	lb/day										lb/day					
Off-Road	0.4024	1.7437	20.4689	0.0327		0.0537	0.0537		0.0537	0.0537	0.0000	3,166.6721	3,166.6721	1.0242		3,192.2763
Total	**0.4024**	**1.7437**	**20.4689**	**0.0327**		**0.0537**	**0.0537**		**0.0537**	**0.0537**	**0.0000**	**3,166.6721**	**3,166.6721**	**1.0242**		**3,192.2763**

3.2 Demolition - 2020

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	lb/day										lb/day					
Hauling	0.0539	2.9401	0.2407	4.1000e-003	4.9900e-003	1.1900e-003	6.1800e-003	1.4200e-003	1.1400e-003	2.5600e-003		433.4887	433.4887	0.0903		435.7466
Vendor	6.2900e-003	0.2786	0.0476	3.3000e-004	8.1000e-004	1.8000e-004	9.9000e-004	2.4000e-004	1.7000e-004	4.1000e-004		34.8516	34.8516	7.1100e-003		35.0294
Worker	0.0630	0.0139	0.1853	1.5000e-004	6.1700e-003	2.9000e-004	6.4500e-003	1.6900e-003	2.6000e-004	1.9500e-003		14.6771	14.6771	9.9000e-004		14.7018
Total	**0.1232**	**3.2327**	**0.4736**	**4.5800e-003**	**0.0120**	**1.6600e-003**	**0.0136**	**3.3500e-003**	**1.5700e-003**	**4.9200e-003**		**483.0174**	**483.0174**	**0.0984**		**485.4778**

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	lb/day										lb/day					
Fugitive Dust					18.5965	0.0000	18.5965	9.9879	0.0000	9.9879			0.0000			0.0000
Off-Road	4.0809	44.0063	18.1988	0.0377		2.1001	2.1001		1.9321	1.9321		3,651.0911	3,651.0911	1.1808		3,680.6120
Total	**4.0809**	**44.0063**	**18.1988**	**0.0377**	**18.5965**	**2.1001**	**20.6966**	**9.9879**	**1.9321**	**11.9201**		**3,651.0911**	**3,651.0911**	**1.1808**		**3,680.6120**

3.3 Site Preparation - 2020

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	lb/day										lb/day					
Hauling	8.0900e-003	0.4410	0.0361	6.1000e-004	7.5000e-004	1.8000e-004	9.3000e-004	2.1000e-004	1.7000e-004	3.8000e-004		65.0233	65.0233	0.0136		65.3620
Vendor	6.2900e-003	0.2786	0.0476	3.3000e-004	8.1000e-004	1.8000e-004	9.9000e-004	2.4000e-004	1.7000e-004	4.1000e-004		34.8516	34.8516	7.1100e-003		35.0294
Worker	0.0630	0.0139	0.1853	1.5000e-004	6.1700e-003	2.9000e-004	6.4500e-003	1.6900e-003	2.6000e-004	1.9500e-003		14.6771	14.6771	9.9000e-004		14.7018
Total	**0.0773**	**0.7335**	**0.2690**	**1.0900e-003**	**7.7300e-003**	**6.5000e-004**	**8.3700e-003**	**2.1400e-003**	**6.0000e-004**	**2.7400e-003**		**114.5520**	**114.5520**	**0.0217**		**115.0932**

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	lb/day										lb/day					
Fugitive Dust					7.2526	0.0000	7.2526	3.8953	0.0000	3.8953			0.0000			0.0000
Off-Road	0.4613	1.9988	18.5742	0.0377		0.0615	0.0615		0.0615	0.0615	0.0000	3,651.0911	3,651.0911	1.1808		3,680.6120
Total	**0.4613**	**1.9988**	**18.5742**	**0.0377**	**7.2526**	**0.0615**	**7.3141**	**3.8953**	**0.0615**	**3.9568**	**0.0000**	**3,651.0911**	**3,651.0911**	**1.1808**		**3,680.6120**

3.3 Site Preparation - 2020

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	lb/day										lb/day					
Hauling	8.0900e-003	0.4410	0.0361	6.1000e-004	7.5000e-004	1.8000e-004	9.3000e-004	2.1000e-004	1.7000e-004	3.8000e-004		65.0233	65.0233	0.0136		65.3620
Vendor	6.2900e-003	0.2786	0.0476	3.3000e-004	8.1000e-004	1.8000e-004	9.9000e-004	2.4000e-004	1.7000e-004	4.1000e-004		34.8516	34.8516	7.1100e-003		35.0294
Worker	0.0630	0.0139	0.1853	1.5000e-004	6.1700e-003	2.9000e-004	6.4500e-003	1.6900e-003	2.6000e-004	1.9500e-003		14.6771	14.6771	9.9000e-004		14.7018
Total	**0.0773**	**0.7335**	**0.2690**	**1.0900e-003**	**7.7300e-003**	**6.5000e-004**	**8.3700e-003**	**2.1400e-003**	**6.0000e-004**	**2.7400e-003**		**114.5520**	**114.5520**	**0.0217**		**115.0932**

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	lb/day										lb/day					
Fugitive Dust					1.0909	0.0000	1.0909	0.1191	0.0000	0.1191			0.0000			0.0000
Off-Road	1.7540	21.3153	10.5269	0.0274		0.7842	0.7842		0.7214	0.7214		2,653.8881	2,653.8881	0.8583		2,675.3462
Total	**1.7540**	**21.3153**	**10.5269**	**0.0274**	**1.0909**	**0.7842**	**1.8751**	**0.1191**	**0.7214**	**0.8406**		**2,653.8881**	**2,653.8881**	**0.8583**		**2,675.3462**

3.4 Grading - 2020

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	lb/day										lb/day					
Hauling	0.0728	3.9692	0.3249	5.5300e-003	6.7400e-003	1.6100e-003	8.3500e-003	1.9200e-003	1.5400e-003	3.4500e-003		585.2097	585.2097	0.1219		588.2579
Vendor	6.2900e-003	0.2786	0.0476	3.3000e-004	8.1000e-004	1.8000e-004	9.9000e-004	2.4000e-004	1.7000e-004	4.1000e-004		34.8516	34.8516	7.1100e-003		35.0294
Worker	0.0472	0.0104	0.1390	1.1000e-004	4.6300e-003	2.1000e-004	4.8400e-003	1.2700e-003	2.0000e-004	1.4600e-003		11.0078	11.0078	7.4000e-004		11.0263
Total	**0.1263**	**4.2582**	**0.5115**	**5.9700e-003**	**0.0122**	**2.0000e-003**	**0.0142**	**3.4300e-003**	**1.9100e-003**	**5.3200e-003**		**631.0691**	**631.0691**	**0.1298**		**634.3137**

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	lb/day										lb/day					
Fugitive Dust					0.4255	0.0000	0.4255	0.0465	0.0000	0.0465			0.0000			0.0000
Off-Road	0.3364	1.4576	14.7527	0.0274		0.0449	0.0449		0.0449	0.0449	0.0000	2,653.8881	2,653.8881	0.8583		2,675.3462
Total	**0.3364**	**1.4576**	**14.7527**	**0.0274**	**0.4255**	**0.0449**	**0.4703**	**0.0465**	**0.0449**	**0.0913**	**0.0000**	**2,653.8881**	**2,653.8881**	**0.8583**		**2,675.3462**

3.4 Grading - 2020

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	lb/day										lb/day					
Hauling	0.0728	3.9692	0.3249	5.5300e-003	6.7400e-003	1.6100e-003	8.3500e-003	1.9200e-003	1.5400e-003	3.4500e-003		585.2097	585.2097	0.1219		588.2579
Vendor	6.2900e-003	0.2786	0.0476	3.3000e-004	8.1000e-004	1.8000e-004	9.9000e-004	2.4000e-004	1.7000e-004	4.1000e-004		34.8516	34.8516	7.1100e-003		35.0294
Worker	0.0472	0.0104	0.1390	1.1000e-004	4.6300e-003	2.1000e-004	4.8400e-003	1.2700e-003	2.0000e-004	1.4600e-003		11.0078	11.0078	7.4000e-004		11.0263
Total	**0.1263**	**4.2582**	**0.5115**	**5.9700e-003**	**0.0122**	**2.0000e-003**	**0.0142**	**3.4300e-003**	**1.9100e-003**	**5.3200e-003**		**631.0691**	**631.0691**	**0.1298**		**634.3137**

3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	2.1443	19.4875	16.5366	0.0343		0.8803	0.8803		0.8395	0.8395		3,228.4633	3,228.4633	0.8049		3,248.5848
Total	**2.1443**	**19.4875**	**16.5366**	**0.0343**		**0.8803**	**0.8803**		**0.8395**	**0.8395**		**3,228.4633**	**3,228.4633**	**0.8049**		**3,248.5848**

3.5 Building Construction - 2020

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	lb/day										lb/day					
Hauling	1.6200e-003	0.0882	7.2200e-003	1.2000e-004	5.0000e-004	4.0000e-005	5.4000e-004	1.3000e-004	3.0000e-005	1.6000e-004		13.0047	13.0047	2.7100e-003		13.0724
Vendor	0.0630	2.7861	0.4757	3.3000e-003	8.0800e-003	1.8000e-003	9.8700e-003	2.4300e-003	1.7200e-003	4.1500e-003		348.5162	348.5162	0.0711		350.2943
Worker	0.4721	0.1043	1.3901	1.1200e-003	0.0463	2.1400e-003	0.0484	0.0127	1.9700e-003	0.0146		110.0780	110.0780	7.4200e-003		110.2634
Total	**0.5367**	**2.9785**	**1.8730**	**4.5400e-003**	**0.0548**	**3.9800e-003**	**0.0588**	**0.0152**	**3.7200e-003**	**0.0189**		**471.5988**	**471.5988**	**0.0813**		**473.6301**

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	lb/day										lb/day					
Off-Road	0.4534	4.3576	19.5782	0.0343		0.0519	0.0519		0.0519	0.0519	0.0000	3,228.4633	3,228.4633	0.8049		3,248.5848
Total	**0.4534**	**4.3576**	**19.5782**	**0.0343**		**0.0519**	**0.0519**		**0.0519**	**0.0519**	**0.0000**	**3,228.4633**	**3,228.4633**	**0.8049**		**3,248.5848**

3.5 Building Construction - 2020

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	lb/day										lb/day					
Hauling	1.6200e-003	0.0882	7.2200e-003	1.2000e-004	5.0000e-004	4.0000e-005	5.4000e-004	1.3000e-004	3.0000e-005	1.6000e-004		13.0047	13.0047	2.7100e-003		13.0724
Vendor	0.0630	2.7861	0.4757	3.3000e-003	8.0800e-003	1.8000e-003	9.8700e-003	2.4300e-003	1.7200e-003	4.1500e-003		348.5162	348.5162	0.0711		350.2943
Worker	0.4721	0.1043	1.3901	1.1200e-003	0.0463	2.1400e-003	0.0484	0.0127	1.9700e-003	0.0146		110.0780	110.0780	7.4200e-003		110.2634
Total	**0.5367**	**2.9785**	**1.8730**	**4.5400e-003**	**0.0548**	**3.9800e-003**	**0.0588**	**0.0152**	**3.7200e-003**	**0.0189**		**471.5988**	**471.5988**	**0.0813**		**473.6301**

3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.9349	17.6908	16.2626	0.0343		0.7622	0.7622		0.7265	0.7265		3,230.8554	3,230.8554	0.7950		3,250.7315
Total	**1.9349**	**17.6908**	**16.2626**	**0.0343**		**0.7622**	**0.7622**		**0.7265**	**0.7265**		**3,230.8554**	**3,230.8554**	**0.7950**		**3,250.7315**

3.5 Building Construction - 2021

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	lb/day										lb/day					
Hauling	1.5300e-003	0.0852	6.9000e-003	1.2000e-004	2.0000e-004	3.0000e-005	2.3000e-004	6.0000e-005	3.0000e-005	8.0000e-005		12.8689	12.8689	2.5700e-003		12.9332
Vendor	0.0585	2.6762	0.4425	3.2700e-003	8.0800e-003	9.0000e-004	8.9800e-003	2.4300e-003	8.6000e-004	3.3000e-003		344.9057	344.9057	0.0674		346.5907
Worker	0.4347	0.0920	1.2539	1.0900e-003	0.0463	2.1000e-003	0.0484	0.0127	1.9300e-003	0.0146		106.5431	106.5431	6.5600e-003		106.7072
Total	**0.4947**	**2.8534**	**1.7033**	**4.4800e-003**	**0.0545**	**3.0300e-003**	**0.0576**	**0.0151**	**2.8200e-003**	**0.0180**		**464.3177**	**464.3177**	**0.0765**		**466.2311**

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	lb/day										lb/day					
Off-Road	0.4534	4.3576	19.5782	0.0343		0.0519	0.0519		0.0519	0.0519	0.0000	3,230.8554	3,230.8554	0.7950		3,250.7315
Total	**0.4534**	**4.3576**	**19.5782**	**0.0343**		**0.0519**	**0.0519**		**0.0519**	**0.0519**	**0.0000**	**3,230.8554**	**3,230.8554**	**0.7950**		**3,250.7315**

3.5 Building Construction - 2021

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	lb/day										lb/day					
Hauling	1.5300e-003	0.0852	6.9000e-003	1.2000e-004	2.0000e-004	3.0000e-005	2.3000e-004	6.0000e-005	3.0000e-005	8.0000e-005		12.8689	12.8689	2.5700e-003		12.9332
Vendor	0.0585	2.6762	0.4425	3.2700e-003	8.0800e-003	9.0000e-004	8.9800e-003	2.4300e-003	8.6000e-004	3.3000e-003		344.9057	344.9057	0.0674		346.5907
Worker	0.4347	0.0920	1.2539	1.0900e-003	0.0463	2.1000e-003	0.0484	0.0127	1.9300e-003	0.0146		106.5431	106.5431	6.5600e-003		106.7072
Total	**0.4947**	**2.8534**	**1.7033**	**4.4800e-003**	**0.0545**	**3.0300e-003**	**0.0576**	**0.0151**	**2.8200e-003**	**0.0180**		**464.3177**	**464.3177**	**0.0765**		**466.2311**

3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.7520	15.6021	16.0619	0.0344		0.6508	0.6508		0.6207	0.6207		3,232.6847	3,232.6847	0.7891		3,252.4113
Total	**1.7520**	**15.6021**	**16.0619**	**0.0344**		**0.6508**	**0.6508**		**0.6207**	**0.6207**		**3,232.6847**	**3,232.6847**	**0.7891**		**3,252.4113**

3.5 Building Construction - 2022

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	lb/day										lb/day					
Hauling	1.4400e-003	0.0822	6.5800e-003	1.2000e-004	8.5000e-004	2.0000e-005	8.8000e-004	2.2000e-004	2.0000e-005	2.4000e-004		12.7490	12.7490	2.4200e-003		12.8095
Vendor	0.0543	2.6005	0.4092	3.2400e-003	8.0800e-003	7.1000e-004	8.7800e-003	2.4300e-003	6.8000e-004	3.1100e-003		341.8465	341.8465	0.0634		343.4322
Worker	0.4010	0.0815	1.1354	1.0500e-003	0.0463	2.0600e-003	0.0483	0.0127	1.8900e-003	0.0145		102.8315	102.8315	5.8100e-003		102.9769
Total	**0.4568**	**2.7641**	**1.5512**	**4.4100e-003**	**0.0552**	**2.7900e-003**	**0.0580**	**0.0153**	**2.5900e-003**	**0.0179**		**457.4270**	**457.4270**	**0.0717**		**459.2186**

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	lb/day										lb/day					
Off-Road	0.4534	4.3576	19.5782	0.0344		0.0519	0.0519		0.0519	0.0519	0.0000	3,232.6847	3,232.6847	0.7891		3,252.4113
Total	**0.4534**	**4.3576**	**19.5782**	**0.0344**		**0.0519**	**0.0519**		**0.0519**	**0.0519**	**0.0000**	**3,232.6847**	**3,232.6847**	**0.7891**		**3,252.4113**

3.5 Building Construction - 2022

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	lb/day										lb/day					
Hauling	1.4400e-003	0.0822	6.5800e-003	1.2000e-004	8.5000e-004	2.0000e-005	8.8000e-004	2.2000e-004	2.0000e-005	2.4000e-004		12.7490	12.7490	2.4200e-003		12.8095
Vendor	0.0543	2.6005	0.4092	3.2400e-003	8.0800e-003	7.1000e-004	8.7800e-003	2.4300e-003	6.8000e-004	3.1100e-003		341.8465	341.8465	0.0634		343.4322
Worker	0.4010	0.0815	1.1354	1.0500e-003	0.0463	2.0600e-003	0.0483	0.0127	1.8900e-003	0.0145		102.8315	102.8315	5.8100e-003		102.9769
Total	**0.4568**	**2.7641**	**1.5512**	**4.4100e-003**	**0.0552**	**2.7900e-003**	**0.0580**	**0.0153**	**2.5900e-003**	**0.0179**		**457.4270**	**457.4270**	**0.0717**		**459.2186**

3.6 Trenching - 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	lb/day										lb/day					
Off-Road	0.6981	6.8542	9.5914	0.0140		0.3656	0.3656		0.3364	0.3364		1,356.5970	1,356.5970	0.4388		1,367.5658
Total	**0.6981**	**6.8542**	**9.5914**	**0.0140**		**0.3656**	**0.3656**		**0.3364**	**0.3364**		**1,356.5970**	**1,356.5970**	**0.4388**		**1,367.5658**

3.6 Trenching - 2022

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	lb/day										lb/day					
Hauling	1.4400e-003	0.0822	6.5800e-003	1.2000e-004	1.5000e-004	2.0000e-005	1.7000e-004	4.0000e-005	2.0000e-005	6.0000e-005		12.7490	12.7490	2.4200e-003		12.8095
Vendor	5.4300e-003	0.2601	0.0409	3.2000e-004	8.1000e-004	7.0000e-005	8.8000e-004	2.4000e-004	7.0000e-005	3.1000e-004		34.1847	34.1847	6.3400e-003		34.3432
Worker	0.0802	0.0163	0.2271	2.1000e-004	9.2500e-003	4.1000e-004	9.6600e-003	2.5300e-003	3.8000e-004	2.9100e-003		20.5663	20.5663	1.1600e-003		20.5954
Total	**0.0871**	**0.3586**	**0.2746**	**6.5000e-004**	**0.0102**	**5.0000e-004**	**0.0107**	**2.8100e-003**	**4.7000e-004**	**3.2800e-003**		**67.4999**	**67.4999**	**9.9200e-003**		**67.7481**

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	lb/day										lb/day					
Off-Road	0.1717	0.7439	10.5860	0.0140		0.0229	0.0229		0.0229	0.0229	0.0000	1,356.5970	1,356.5970	0.4388		1,367.5658
Total	**0.1717**	**0.7439**	**10.5860**	**0.0140**		**0.0229**	**0.0229**		**0.0229**	**0.0229**	**0.0000**	**1,356.5970**	**1,356.5970**	**0.4388**		**1,367.5658**

3.6 Trenching - 2022

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	lb/day										lb/day					
Hauling	1.4400e-003	0.0822	6.5800e-003	1.2000e-004	1.5000e-004	2.0000e-005	1.7000e-004	4.0000e-005	2.0000e-005	6.0000e-005		12.7490	12.7490	2.4200e-003		12.8095
Vendor	5.4300e-003	0.2601	0.0409	3.2000e-004	8.1000e-004	7.0000e-005	8.8000e-004	2.4000e-004	7.0000e-005	3.1000e-004		34.1847	34.1847	6.3400e-003		34.3432
Worker	0.0802	0.0163	0.2271	2.1000e-004	9.2500e-003	4.1000e-004	9.6600e-003	2.5300e-003	3.8000e-004	2.9100e-003		20.5663	20.5663	1.1600e-003		20.5954
Total	**0.0871**	**0.3586**	**0.2746**	**6.5000e-004**	**0.0102**	**5.0000e-004**	**0.0107**	**2.8100e-003**	**4.7000e-004**	**3.2800e-003**		**67.4999**	**67.4999**	**9.9200e-003**		**67.7481**

3.7 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	lb/day										lb/day					
Off-Road	0.5514	5.5624	7.2902	0.0114		0.2840	0.2840		0.2612	0.2612		1,103.8302	1,103.8302	0.3570		1,112.7552
Paving	0.2581					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8095**	**5.5624**	**7.2902**	**0.0114**		**0.2840**	**0.2840**		**0.2612**	**0.2612**		**1,103.8302**	**1,103.8302**	**0.3570**		**1,112.7552**

3.7 Paving - 2022

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	lb/day										lb/day					
Hauling	0.0215	1.2331	0.0987	1.8100e-003	2.2500e-003	3.4000e-004	2.5900e-003	6.4000e-004	3.3000e-004	9.6000e-004		191.2345	191.2345	0.0363		192.1427
Vendor	2.7200e-003	0.1300	0.0205	1.6000e-004	4.0000e-004	4.0000e-005	4.4000e-004	1.2000e-004	3.0000e-005	1.6000e-004		17.0923	17.0923	3.1700e-003		17.1716
Worker	0.0321	6.5200e-003	0.0908	8.0000e-005	3.7000e-003	1.6000e-004	3.8700e-003	1.0100e-003	1.5000e-004	1.1600e-003		8.2265	8.2265	4.7000e-004		8.2382
Total	**0.0563**	**1.3697**	**0.2099**	**2.0500e-003**	**6.3500e-003**	**5.4000e-004**	**6.9000e-003**	**1.7700e-003**	**5.1000e-004**	**2.2800e-003**		**216.5533**	**216.5533**	**0.0400**		**217.5524**

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	lb/day										lb/day					
Off-Road	0.1402	0.6077	8.6478	0.0114		0.0187	0.0187		0.0187	0.0187	0.0000	1,103.8302	1,103.8302	0.3570		1,112.7552
Paving	0.2581					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3983**	**0.6077**	**8.6478**	**0.0114**		**0.0187**	**0.0187**		**0.0187**	**0.0187**	**0.0000**	**1,103.8302**	**1,103.8302**	**0.3570**		**1,112.7552**

3.7 Paving - 2022

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	lb/day										lb/day					
Hauling	0.0215	1.2331	0.0987	1.8100e-003	2.2500e-003	3.4000e-004	2.5900e-003	6.4000e-004	3.3000e-004	9.6000e-004		191.2345	191.2345	0.0363		192.1427
Vendor	2.7200e-003	0.1300	0.0205	1.6000e-004	4.0000e-004	4.0000e-005	4.4000e-004	1.2000e-004	3.0000e-005	1.6000e-004		17.0923	17.0923	3.1700e-003		17.1716
Worker	0.0321	6.5200e-003	0.0908	8.0000e-005	3.7000e-003	1.6000e-004	3.8700e-003	1.0100e-003	1.5000e-004	1.1600e-003		8.2265	8.2265	4.7000e-004		8.2382
Total	**0.0563**	**1.3697**	**0.2099**	**2.0500e-003**	**6.3500e-003**	**5.4000e-004**	**6.9000e-003**	**1.7700e-003**	**5.1000e-004**	**2.2800e-003**		**216.5533**	**216.5533**	**0.0400**		**217.5524**

3.8 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	36.6434					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4091	2.8170	3.6272	5.9400e-003		0.1634	0.1634		0.1634	0.1634		562.8961	562.8961	0.0367		563.8123
Total	**37.0525**	**2.8170**	**3.6272**	**5.9400e-003**		**0.1634**	**0.1634**		**0.1634**	**0.1634**		**562.8961**	**562.8961**	**0.0367**		**563.8123**

3.8 Architectural Coating - 2022

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	lb/day										lb/day					
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
Vendor	2.7200e-003	0.1300	0.0205	1.6000e-004	4.0000e-004	4.0000e-005	4.4000e-004	1.2000e-004	3.0000e-005	1.6000e-004		17.0923	17.0923	3.1700e-003		17.1716
Worker	0.0401	8.1400e-003	0.1135	1.0000e-004	4.6300e-003	2.1000e-004	4.8300e-003	1.2700e-003	1.9000e-004	1.4500e-003		10.2832	10.2832	5.8000e-004		10.2977
Total	**0.0428**	**0.1382**	**0.1340**	**2.6000e-004**	**5.0300e-003**	**2.5000e-004**	**5.2700e-003**	**1.3900e-003**	**2.2000e-004**	**1.6100e-003**		**27.3755**	**27.3755**	**3.7500e-003**		**27.4693**

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	lb/day										lb/day					
Archit. Coating	36.6434					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0367		563.8123
Total	**36.7028**	**0.2575**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0367**		**563.8123**

3.8 Architectural Coating - 2022

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	lb/day										lb/day					
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
Vendor	2.7200e-003	0.1300	0.0205	1.6000e-004	4.0000e-004	4.0000e-005	4.4000e-004	1.2000e-004	3.0000e-005	1.6000e-004		17.0923	17.0923	3.1700e-003		17.1716
Worker	0.0401	8.1400e-003	0.1135	1.0000e-004	4.6300e-003	2.1000e-004	4.8300e-003	1.2700e-003	1.9000e-004	1.4500e-003		10.2832	10.2832	5.8000e-004		10.2977
Total	**0.0428**	**0.1382**	**0.1340**	**2.6000e-004**	**5.0300e-003**	**2.5000e-004**	**5.2700e-003**	**1.3900e-003**	**2.2000e-004**	**1.6100e-003**		**27.3755**	**27.3755**	**3.7500e-003**		**27.4693**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Limit Parking Supply

Implement Trip Reduction Program

Market Commute Trip Reduction Option

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7561	4.3946	2.2399	8.0500e-003	0.0770	3.9900e-003	0.0810	0.0206	3.6900e-003	0.0243		840.2005	840.2005	0.1130		843.0265
Unmitigated	0.7576	4.4037	2.2865	8.2700e-003	0.0963	4.1100e-003	0.1004	0.0258	3.8100e-003	0.0296		862.6058	862.6058	0.1136		865.4464

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Hospital	652.65	502.55	439.85	41,552	33,241
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	652.65	502.55	439.85	41,552	33,241

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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Hospital	0.00	0.19	0.00	0.00	100.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Hospital	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Other Asphalt Surfaces	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898

5.0 Energy Detail

Historical Energy Use: N

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	lb/day										lb/day					
NaturalGas Mitigated	0.8003	7.2752	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.2015	8,730.2015	0.1673	0.1601	8,782.0807
NaturalGas Unmitigated	0.8003	7.2752	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.2015	8,730.2015	0.1673	0.1601	8,782.0807

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	lb/day										lb/day					
General Light Industry	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
Hospital	74206.7	0.8003	7.2752	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.2015	8,730.2015	0.1673	0.1601	8,782.0807
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
Total		**0.8003**	**7.2752**	**6.1111**	**0.0437**		**0.5529**	**0.5529**		**0.5529**	**0.5529**		**8,730.2015**	**8,730.2015**	**0.1673**	**0.1601**	**8,782.0807**

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	lb/day										lb/day					
General Light Industry	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
Hospital	74.2067	0.8003	7.2752	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.2015	8,730.2015	0.1673	0.1601	8,782.0807
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
Total		**0.8003**	**7.2752**	**6.1111**	**0.0437**		**0.5529**	**0.5529**		**0.5529**	**0.5529**		**8,730.2015**	**8,730.2015**	**0.1673**	**0.1601**	**8,782.0807**

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	lb/day										lb/day					
Mitigated	2.5040	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473
Unmitigated	2.5040	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473

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	lb/day										lb/day					
Architectural Coating	0.1551					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9200e-003	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473
Total	**2.5041**	**1.9000e-004**	**0.0207**	**0.0000**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**		**0.0444**	**0.0444**	**1.2000e-004**		**0.0473**

6.2 Area by SubCategory

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	lb/day										lb/day					
Architectural Coating	0.1551					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9200e-003	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473
Total	**2.5041**	**1.9000e-004**	**0.0207**	**0.0000**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**		**0.0444**	**0.0444**	**1.2000e-004**		**0.0473**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	50	2667	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (750 - 9999 HP)	2.1884	1.0731	5.5799	0.0105		0.0429	0.0429		0.0429	0.0429		1,119.4921	1,119.4921	0.1570		1,123.4159
Total	**2.1884**	**1.0731**	**5.5799**	**0.0105**		**0.0429**	**0.0429**		**0.0429**	**0.0429**		**1,119.4921**	**1,119.4921**	**0.1570**		**1,123.4159**

11.0 Vegetation

Kaiser Moreno Valley - Phase I LST

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	95.00	1000sqft	2.18	95,000.00	0
General Light Industry	22.00	1000sqft	0.51	22,000.00	0
Other Asphalt Surfaces	85.86	1000sqft	1.97	85,856.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	601.59	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on actual RPS for SCE in 2017.

Land Use - Based on project description.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.
Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - Based on applicant provided information.

On-road Fugitive Dust - CalEEMod defaults.

Grading - CalEEMod defaults. Import based on applicant provided information.

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Based on trip gen for Phase 1.

Road Dust - CalEEMod defaults.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - Based on applicant provided information.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - water 3x daily and vehicle speed limit of 15 mph on unpaved roads.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation - LED lighting.

Water Mitigation -

Waste Mitigation - In accordance with AB 939.

Kaiser Moreno Valley - Phase I LST - Riverside-South Coast County, Winter

Stationary Sources - Emergency Generators and Fire Pumps -
Stationary Sources - Process Boilers -

Stationary Sources - Emergency Generators and Fire Pumps EF - Based on Tier 4 Final standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	58,500.00	56,718.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	175,500.00	170,154.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	18.00	15.00
tblConstructionPhase	NumDays	230.00	400.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	8.00	25.00
tblConstructionPhase	NumDays	18.00	20.00
tblConstructionPhase	NumDays	5.00	25.00
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	LightingElect	4.52	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24E	5.56	0.00
tblEnergyUse	NT24NG	17.13	0.00

tblEnergyUse	NT24NG	6.03	0.00
tblEnergyUse	T24E	2.20	0.00
tblEnergyUse	T24E	8.35	18.51
tblEnergyUse	T24NG	15.36	0.00
tblEnergyUse	T24NG	69.49	285.11
tblGrading	MaterialImported	0.00	6,000.00
tblLandUse	LandUseSquareFeet	85,860.00	85,856.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition

tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	601.59
tblSolidWaste	SolidWasteGenerationRate	27.28	25.10
tblSolidWaste	SolidWasteGenerationRate	1,026.00	1,006.45
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripNumber	0.00	400.00
tblTripsAndVMT	HaulingTripNumber	0.00	100.00
tblTripsAndVMT	HaulingTripNumber	750.00	900.00
tblTripsAndVMT	HaulingTripNumber	0.00	320.00
tblTripsAndVMT	HaulingTripNumber	0.00	96.00
tblTripsAndVMT	HaulingTripNumber	0.00	240.00

tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	33.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	30.00
tblTripsAndVMT	WorkerTripNumber	76.00	300.00
tblTripsAndVMT	WorkerTripNumber	10.00	60.00
tblTripsAndVMT	WorkerTripNumber	8.00	24.00

tblTripsAndVMT	WorkerTripNumber	15.00	30.00
tblVehicleTrips	CC_TL	8.40	0.19
tblVehicleTrips	CC_TTP	16.10	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	64.90	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	73.00	100.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	10.18	5.29
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	8.91	4.63
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	13.22	6.87
tblWater	IndoorWaterUseRate	5,087,500.00	4,680,500.00
tblWater	IndoorWaterUseRate	11,920,651.07	11,693,531.30
tblWater	OutdoorWaterUseRate	2,270,600.20	2,227,339.29

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2020	4.1431	44.7130	18.6798	0.0386	18.6042	2.1008	20.7051	9.9901	1.9328	11.9229	0.0000	3,752.5315	3,752.5315	1.2054	0.0000	3,782.6654
2021	2.3178	20.4578	18.2138	0.0384	0.0545	0.7655	0.8200	0.0151	0.7296	0.7447	0.0000	3,646.0150	3,646.0150	0.8816	0.0000	3,668.0552
2022	37.0846	18.2837	17.8427	0.0383	0.0552	0.6538	0.7090	0.0153	0.6235	0.6388	0.0000	3,641.3157	3,641.3157	0.8703	0.0000	3,663.0723
Maximum	**37.0846**	**44.7130**	**18.6798**	**0.0386**	**18.6042**	**2.1008**	**20.7051**	**9.9901**	**1.9328**	**11.9229**	**0.0000**	**3,752.5315**	**3,752.5315**	**1.2054**	**0.0000**	**3,782.6654**

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	lb/day										lb/day					
2020	0.8701	7.2447	21.7214	0.0386	7.2604	0.0622	7.3226	3.8974	0.0622	3.9596	0.0000	3,752.5315	3,752.5315	1.2054	0.0000	3,782.6654
2021	0.8363	7.1246	21.5294	0.0384	0.0545	0.0551	0.1096	0.0151	0.0549	0.0700	0.0000	3,646.0150	3,646.0150	0.8816	0.0000	3,668.0552
2022	36.7349	7.0392	21.3590	0.0383	0.0552	0.0548	0.1100	0.0153	0.0546	0.0699	0.0000	3,641.3157	3,641.3157	0.8703	0.0000	3,663.0723
Maximum	**36.7349**	**7.2447**	**21.7214**	**0.0386**	**7.2604**	**0.0622**	**7.3226**	**3.8974**	**0.0622**	**3.9596**	**0.0000**	**3,752.5315**	**3,752.5315**	**1.2054**	**0.0000**	**3,782.6654**

	ROG	NOx	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	**11.72**	**74.35**	**-18.04**	**0.00**	**60.62**	**95.11**	**66.08**	**60.80**	**94.78**	**69.19**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	lb/day										lb/day					
Area	2.5040	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473
Energy	0.8003	7.2752	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.2015	8,730.2015	0.1673	0.1601	8,782.0807
Mobile	0.6037	4.2762	2.6448	7.3600e-003	0.0963	4.3100e-003	0.1006	0.0258	4.0000e-003	0.0298		766.3104	766.3104	0.1287		769.5270
Stationary	2.1884	1.0731	5.5799	0.0105		0.0429	0.0429		0.0429	0.0429		1,119.4921	1,119.4921	0.1570		1,123.4159
Total	**6.0964**	**12.6246**	**14.3565**	**0.0615**	**0.0963**	**0.6002**	**0.6965**	**0.0258**	**0.5999**	**0.6257**		**10,616.0483**	**10,616.0483**	**0.4531**	**0.1601**	**10,675.0709**

2.2 Overall Operational

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	lb/day										lb/day					
Area	2.5040	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473
Energy	0.8003	7.2752	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.2015	8,730.2015	0.1673	0.1601	8,782.0807
Mobile	0.6023	4.2666	2.6076	7.1500e-003	0.0770	4.1900e-003	0.0812	0.0206	3.8900e-003	0.0245		745.4717	745.4717	0.1281		748.6748
Stationary	2.1884	1.0731	5.5799	0.0105		0.0429	0.0429		0.0429	0.0429		1,119.4921	1,119.4921	0.1570		1,123.4159
Total	**6.0950**	**12.6150**	**14.3193**	**0.0613**	**0.0770**	**0.6001**	**0.6771**	**0.0206**	**0.5998**	**0.6204**		**10,595.2097**	**10,595.2097**	**0.4525**	**0.1601**	**10,654.2186**

	ROG	NOx	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	**0.02**	**0.08**	**0.26**	**0.34**	**20.00**	**0.02**	**2.78**	**20.00**	**0.02**	**0.84**	**0.00**	**0.20**	**0.20**	**0.12**	**0.00**	**0.20**

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	6/1/2020	6/19/2020	5	15	
2	Site Preparation	Site Preparation	6/20/2020	7/24/2020	5	25	
3	Grading	Grading	7/25/2020	8/28/2020	5	25	
4	Building Construction	Building Construction	8/29/2020	3/11/2022	5	400	
5	Trenching	Trenching	3/12/2022	8/26/2022	5	120	
6	Paving	Paving	8/27/2022	9/23/2022	5	20	
7	Architectural Coating	Architectural Coating	9/24/2022	10/14/2022	5	15	

Acres of Grading (Site Preparation Phase): 12.5

Acres of Grading (Grading Phase): 25

Acres of Paving: 1.97

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 170,154; Non-Residential Outdoor: 56,718; Striped Parking Area: 5,151 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crawler Tractors	1	8.00	212	0.43
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Scrapers	0	8.00	367	0.48

Site Preparation	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Bore/Drill Rigs	1	8.00	221	0.50
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	0	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Trenching	Excavators	1	8.00	158	0.38
Trenching	Rollers	1	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Coating	Air Compressors	2	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	40.00	4.00	400.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Site Preparation	6	40.00	4.00	100.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Grading	5	30.00	4.00	900.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Building Construction	8	300.00	40.00	320.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Trenching	4	60.00	4.00	96.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Paving	3	24.00	2.00	240.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	30.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved 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	lb/day										lb/day					
Off-Road	1.8974	21.2003	16.2185	0.0327		0.9108	0.9108		0.8379	0.8379		3,166.6721	3,166.6721	1.0242		3,192.2763
Total	**1.8974**	**21.2003**	**16.2185**	**0.0327**		**0.9108**	**0.9108**		**0.8379**	**0.8379**		**3,166.6721**	**3,166.6721**	**1.0242**		**3,192.2763**

3.2 Demolition - 2020

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	lb/day										lb/day					
Hauling	0.0611	2.8189	0.3766	3.5900e-003	4.9900e-003	1.4800e-003	6.4700e-003	1.4200e-003	1.4100e-003	2.8300e-003		379.5968	379.5968	0.1025		382.1587
Vendor	6.8800e-003	0.2695	0.0607	2.9000e-004	8.1000e-004	2.1000e-004	1.0100e-003	2.4000e-004	2.0000e-004	4.4000e-004		30.7124	30.7124	8.0500e-003		30.9136
Worker	0.0461	0.0144	0.2033	1.4000e-004	6.1700e-003	2.9000e-004	6.4500e-003	1.6900e-003	2.6000e-004	1.9500e-003		13.7886	13.7886	1.1000e-003		13.8160
Total	**0.1141**	**3.1028**	**0.6406**	**4.0200e-003**	**0.0120**	**1.9800e-003**	**0.0139**	**3.3500e-003**	**1.8700e-003**	**5.2200e-003**		**424.0977**	**424.0977**	**0.1116**		**426.8883**

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	lb/day										lb/day					
Off-Road	0.4024	1.7437	20.4689	0.0327		0.0537	0.0537		0.0537	0.0537	0.0000	3,166.6721	3,166.6721	1.0242		3,192.2763
Total	**0.4024**	**1.7437**	**20.4689**	**0.0327**		**0.0537**	**0.0537**		**0.0537**	**0.0537**	**0.0000**	**3,166.6721**	**3,166.6721**	**1.0242**		**3,192.2763**

3.2 Demolition - 2020

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	lb/day										lb/day					
Hauling	0.0611	2.8189	0.3766	3.5900e-003	4.9900e-003	1.4800e-003	6.4700e-003	1.4200e-003	1.4100e-003	2.8300e-003		379.5968	379.5968	0.1025		382.1587
Vendor	6.8800e-003	0.2695	0.0607	2.9000e-004	8.1000e-004	2.1000e-004	1.0100e-003	2.4000e-004	2.0000e-004	4.4000e-004		30.7124	30.7124	8.0500e-003		30.9136
Worker	0.0461	0.0144	0.2033	1.4000e-004	6.1700e-003	2.9000e-004	6.4500e-003	1.6900e-003	2.6000e-004	1.9500e-003		13.7886	13.7886	1.1000e-003		13.8160
Total	**0.1141**	**3.1028**	**0.6406**	**4.0200e-003**	**0.0120**	**1.9800e-003**	**0.0139**	**3.3500e-003**	**1.8700e-003**	**5.2200e-003**		**424.0977**	**424.0977**	**0.1116**		**426.8883**

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	lb/day										lb/day					
Fugitive Dust					18.5965	0.0000	18.5965	9.9879	0.0000	9.9879			0.0000			0.0000
Off-Road	4.0809	44.0063	18.1988	0.0377		2.1001	2.1001		1.9321	1.9321		3,651.0911	3,651.0911	1.1808		3,680.6120
Total	**4.0809**	**44.0063**	**18.1988**	**0.0377**	**18.5965**	**2.1001**	**20.6966**	**9.9879**	**1.9321**	**11.9201**		**3,651.0911**	**3,651.0911**	**1.1808**		**3,680.6120**

3.3 Site Preparation - 2020

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	lb/day										lb/day					
Hauling	9.1600e-003	0.4228	0.0565	5.4000e-004	7.5000e-004	2.2000e-004	9.7000e-004	2.1000e-004	2.1000e-004	4.2000e-004		56.9395	56.9395	0.0154		57.3238
Vendor	6.8800e-003	0.2695	0.0607	2.9000e-004	8.1000e-004	2.1000e-004	1.0100e-003	2.4000e-004	2.0000e-004	4.4000e-004		30.7124	30.7124	8.0500e-003		30.9136
Worker	0.0461	0.0144	0.2033	1.4000e-004	6.1700e-003	2.9000e-004	6.4500e-003	1.6900e-003	2.6000e-004	1.9500e-003		13.7886	13.7886	1.1000e-003		13.8160
Total	**0.0622**	**0.7067**	**0.3205**	**9.7000e-004**	**7.7300e-003**	**7.2000e-004**	**8.4300e-003**	**2.1400e-003**	**6.7000e-004**	**2.8100e-003**		**101.4404**	**101.4404**	**0.0245**		**102.0534**

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	lb/day										lb/day					
Fugitive Dust					7.2526	0.0000	7.2526	3.8953	0.0000	3.8953			0.0000			0.0000
Off-Road	0.4613	1.9988	18.5742	0.0377		0.0615	0.0615		0.0615	0.0615	0.0000	3,651.0911	3,651.0911	1.1808		3,680.6120
Total	**0.4613**	**1.9988**	**18.5742**	**0.0377**	**7.2526**	**0.0615**	**7.3141**	**3.8953**	**0.0615**	**3.9568**	**0.0000**	**3,651.0911**	**3,651.0911**	**1.1808**		**3,680.6120**

3.3 Site Preparation - 2020

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	lb/day										lb/day					
Hauling	9.1600e-003	0.4228	0.0565	5.4000e-004	7.5000e-004	2.2000e-004	9.7000e-004	2.1000e-004	2.1000e-004	4.2000e-004		56.9395	56.9395	0.0154		57.3238
Vendor	6.8800e-003	0.2695	0.0607	2.9000e-004	8.1000e-004	2.1000e-004	1.0100e-003	2.4000e-004	2.0000e-004	4.4000e-004		30.7124	30.7124	8.0500e-003		30.9136
Worker	0.0461	0.0144	0.2033	1.4000e-004	6.1700e-003	2.9000e-004	6.4500e-003	1.6900e-003	2.6000e-004	1.9500e-003		13.7886	13.7886	1.1000e-003		13.8160
Total	**0.0622**	**0.7067**	**0.3205**	**9.7000e-004**	**7.7300e-003**	**7.2000e-004**	**8.4300e-003**	**2.1400e-003**	**6.7000e-004**	**2.8100e-003**		**101.4404**	**101.4404**	**0.0245**		**102.0534**

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	lb/day										lb/day					
Fugitive Dust					1.0909	0.0000	1.0909	0.1191	0.0000	0.1191			0.0000			0.0000
Off-Road	1.7540	21.3153	10.5269	0.0274		0.7842	0.7842		0.7214	0.7214		2,653.8881	2,653.8881	0.8583		2,675.3462
Total	**1.7540**	**21.3153**	**10.5269**	**0.0274**	**1.0909**	**0.7842**	**1.8751**	**0.1191**	**0.7214**	**0.8406**		**2,653.8881**	**2,653.8881**	**0.8583**		**2,675.3462**

3.4 Grading - 2020

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	lb/day										lb/day					
Hauling	0.0825	3.8056	0.5084	4.8500e-003	6.7400e-003	1.9900e-003	8.7300e-003	1.9200e-003	1.9100e-003	3.8200e-003		512.4557	512.4557	0.1383		515.9142
Vendor	6.8800e-003	0.2695	0.0607	2.9000e-004	8.1000e-004	2.1000e-004	1.0100e-003	2.4000e-004	2.0000e-004	4.4000e-004		30.7124	30.7124	8.0500e-003		30.9136
Worker	0.0346	0.0108	0.1525	1.1000e-004	4.6300e-003	2.1000e-004	4.8400e-003	1.2700e-003	2.0000e-004	1.4600e-003		10.3414	10.3414	8.2000e-004		10.3620
Total	**0.1239**	**4.0858**	**0.7216**	**5.2500e-003**	**0.0122**	**2.4100e-003**	**0.0146**	**3.4300e-003**	**2.3100e-003**	**5.7200e-003**		**553.5095**	**553.5095**	**0.1472**		**557.1898**

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	lb/day										lb/day					
Fugitive Dust					0.4255	0.0000	0.4255	0.0465	0.0000	0.0465			0.0000			0.0000
Off-Road	0.3364	1.4576	14.7527	0.0274		0.0449	0.0449		0.0449	0.0449	0.0000	2,653.8881	2,653.8881	0.8583		2,675.3462
Total	**0.3364**	**1.4576**	**14.7527**	**0.0274**	**0.4255**	**0.0449**	**0.4703**	**0.0465**	**0.0449**	**0.0913**	**0.0000**	**2,653.8881**	**2,653.8881**	**0.8583**		**2,675.3462**

3.4 Grading - 2020

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	lb/day										lb/day					
Hauling	0.0825	3.8056	0.5084	4.8500e-003	6.7400e-003	1.9900e-003	8.7300e-003	1.9200e-003	1.9100e-003	3.8200e-003		512.4557	512.4557	0.1383		515.9142
Vendor	6.8800e-003	0.2695	0.0607	2.9000e-004	8.1000e-004	2.1000e-004	1.0100e-003	2.4000e-004	2.0000e-004	4.4000e-004		30.7124	30.7124	8.0500e-003		30.9136
Worker	0.0346	0.0108	0.1525	1.1000e-004	4.6300e-003	2.1000e-004	4.8400e-003	1.2700e-003	2.0000e-004	1.4600e-003		10.3414	10.3414	8.2000e-004		10.3620
Total	**0.1239**	**4.0858**	**0.7216**	**5.2500e-003**	**0.0122**	**2.4100e-003**	**0.0146**	**3.4300e-003**	**2.3100e-003**	**5.7200e-003**		**553.5095**	**553.5095**	**0.1472**		**557.1898**

3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	2.1443	19.4875	16.5366	0.0343		0.8803	0.8803		0.8395	0.8395		3,228.4633	3,228.4633	0.8049		3,248.5848
Total	**2.1443**	**19.4875**	**16.5366**	**0.0343**		**0.8803**	**0.8803**		**0.8395**	**0.8395**		**3,228.4633**	**3,228.4633**	**0.8049**		**3,248.5848**

3.5 Building Construction - 2020

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	lb/day										lb/day					
Hauling	1.8300e-003	0.0846	0.0113	1.1000e-004	5.0000e-004	4.0000e-005	5.5000e-004	1.3000e-004	4.0000e-005	1.7000e-004		11.3879	11.3879	3.0700e-003		11.4648
Vendor	0.0688	2.6945	0.6070	2.9100e-003	8.0800e-003	2.0700e-003	0.0102	2.4300e-003	1.9800e-003	4.4100e-003		307.1235	307.1235	0.0805		309.1355
Worker	0.3460	0.1081	1.5249	1.0600e-003	0.0463	2.1400e-003	0.0484	0.0127	1.9700e-003	0.0146		103.4143	103.4143	8.2300e-003		103.6201
Total	**0.4167**	**2.8871**	**2.1432**	**4.0800e-003**	**0.0548**	**4.2500e-003**	**0.0591**	**0.0152**	**3.9900e-003**	**0.0192**		**421.9257**	**421.9257**	**0.0918**		**424.2203**

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	lb/day										lb/day					
Off-Road	0.4534	4.3576	19.5782	0.0343		0.0519	0.0519		0.0519	0.0519	0.0000	3,228.4633	3,228.4633	0.8049		3,248.5848
Total	**0.4534**	**4.3576**	**19.5782**	**0.0343**		**0.0519**	**0.0519**		**0.0519**	**0.0519**	**0.0000**	**3,228.4633**	**3,228.4633**	**0.8049**		**3,248.5848**

3.5 Building Construction - 2020

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	lb/day										lb/day					
Hauling	1.8300e-003	0.0846	0.0113	1.1000e-004	5.0000e-004	4.0000e-005	5.5000e-004	1.3000e-004	4.0000e-005	1.7000e-004		11.3879	11.3879	3.0700e-003		11.4648
Vendor	0.0688	2.6945	0.6070	2.9100e-003	8.0800e-003	2.0700e-003	0.0102	2.4300e-003	1.9800e-003	4.4100e-003		307.1235	307.1235	0.0805		309.1355
Worker	0.3460	0.1081	1.5249	1.0600e-003	0.0463	2.1400e-003	0.0484	0.0127	1.9700e-003	0.0146		103.4143	103.4143	8.2300e-003		103.6201
Total	**0.4167**	**2.8871**	**2.1432**	**4.0800e-003**	**0.0548**	**4.2500e-003**	**0.0591**	**0.0152**	**3.9900e-003**	**0.0192**		**421.9257**	**421.9257**	**0.0918**		**424.2203**

3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.9349	17.6908	16.2626	0.0343		0.7622	0.7622		0.7265	0.7265		3,230.8554	3,230.8554	0.7950		3,250.7315
Total	**1.9349**	**17.6908**	**16.2626**	**0.0343**		**0.7622**	**0.7622**		**0.7265**	**0.7265**		**3,230.8554**	**3,230.8554**	**0.7950**		**3,250.7315**

3.5 Building Construction - 2021

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	lb/day										lb/day					
Hauling	1.7300e-003	0.0817	0.0108	1.1000e-004	2.0000e-004	4.0000e-005	2.4000e-004	6.0000e-005	4.0000e-005	9.0000e-005		11.2623	11.2623	2.9200e-003		11.3353
Vendor	0.0640	2.5899	0.5656	2.8800e-003	8.0800e-003	1.1100e-003	9.1900e-003	2.4300e-003	1.0600e-003	3.5000e-003		303.7945	303.7945	0.0764		305.7036
Worker	0.3172	0.0954	1.3749	1.0200e-003	0.0463	2.1000e-003	0.0484	0.0127	1.9300e-003	0.0146		100.1029	100.1029	7.2800e-003		100.2849
Total	**0.3829**	**2.7670**	**1.9512**	**4.0100e-003**	**0.0545**	**3.2500e-003**	**0.0578**	**0.0151**	**3.0300e-003**	**0.0182**		**415.1596**	**415.1596**	**0.0866**		**417.3238**

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	lb/day										lb/day					
Off-Road	0.4534	4.3576	19.5782	0.0343		0.0519	0.0519		0.0519	0.0519	0.0000	3,230.8554	3,230.8554	0.7950		3,250.7315
Total	**0.4534**	**4.3576**	**19.5782**	**0.0343**		**0.0519**	**0.0519**		**0.0519**	**0.0519**	**0.0000**	**3,230.8554**	**3,230.8554**	**0.7950**		**3,250.7315**

3.5 Building Construction - 2021

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	lb/day										lb/day					
Hauling	1.7300e-003	0.0817	0.0108	1.1000e-004	2.0000e-004	4.0000e-005	2.4000e-004	6.0000e-005	4.0000e-005	9.0000e-005		11.2623	11.2623	2.9200e-003		11.3353
Vendor	0.0640	2.5899	0.5656	2.8800e-003	8.0800e-003	1.1100e-003	9.1900e-003	2.4300e-003	1.0600e-003	3.5000e-003		303.7945	303.7945	0.0764		305.7036
Worker	0.3172	0.0954	1.3749	1.0200e-003	0.0463	2.1000e-003	0.0484	0.0127	1.9300e-003	0.0146		100.1029	100.1029	7.2800e-003		100.2849
Total	**0.3829**	**2.7670**	**1.9512**	**4.0100e-003**	**0.0545**	**3.2500e-003**	**0.0578**	**0.0151**	**3.0300e-003**	**0.0182**		**415.1596**	**415.1596**	**0.0866**		**417.3238**

3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.7520	15.6021	16.0619	0.0344		0.6508	0.6508		0.6207	0.6207		3,232.6847	3,232.6847	0.7891		3,252.4113
Total	**1.7520**	**15.6021**	**16.0619**	**0.0344**		**0.6508**	**0.6508**		**0.6207**	**0.6207**		**3,232.6847**	**3,232.6847**	**0.7891**		**3,252.4113**

3.5 Building Construction - 2022

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	lb/day										lb/day					
Hauling	1.6300e-003	0.0789	0.0103	1.1000e-004	8.5000e-004	3.0000e-005	8.8000e-004	2.2000e-004	3.0000e-005	2.4000e-004		11.1472	11.1472	2.7600e-003		11.2161
Vendor	0.0596	2.5183	0.5262	2.8500e-003	8.0800e-003	9.0000e-004	8.9800e-003	2.4300e-003	8.6000e-004	3.2900e-003		300.8544	300.8544	0.0720		302.6542
Worker	0.2914	0.0844	1.2444	9.9000e-004	0.0463	2.0600e-003	0.0483	0.0127	1.8900e-003	0.0145		96.6294	96.6294	6.4500e-003		96.7907
Total	**0.3526**	**2.6816**	**1.7808**	**3.9500e-003**	**0.0552**	**2.9900e-003**	**0.0582**	**0.0153**	**2.7800e-003**	**0.0181**		**408.6310**	**408.6310**	**0.0812**		**410.6610**

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	lb/day										lb/day					
Off-Road	0.4534	4.3576	19.5782	0.0344		0.0519	0.0519		0.0519	0.0519	0.0000	3,232.6847	3,232.6847	0.7891		3,252.4113
Total	**0.4534**	**4.3576**	**19.5782**	**0.0344**		**0.0519**	**0.0519**		**0.0519**	**0.0519**	**0.0000**	**3,232.6847**	**3,232.6847**	**0.7891**		**3,252.4113**

3.5 Building Construction - 2022

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	lb/day										lb/day					
Hauling	1.6300e-003	0.0789	0.0103	1.1000e-004	8.5000e-004	3.0000e-005	8.8000e-004	2.2000e-004	3.0000e-005	2.4000e-004		11.1472	11.1472	2.7600e-003		11.2161
Vendor	0.0596	2.5183	0.5262	2.8500e-003	8.0800e-003	9.0000e-004	8.9800e-003	2.4300e-003	8.6000e-004	3.2900e-003		300.8544	300.8544	0.0720		302.6542
Worker	0.2914	0.0844	1.2444	9.9000e-004	0.0463	2.0600e-003	0.0483	0.0127	1.8900e-003	0.0145		96.6294	96.6294	6.4500e-003		96.7907
Total	**0.3526**	**2.6816**	**1.7808**	**3.9500e-003**	**0.0552**	**2.9900e-003**	**0.0582**	**0.0153**	**2.7800e-003**	**0.0181**		**408.6310**	**408.6310**	**0.0812**		**410.6610**

3.6 Trenching - 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	lb/day										lb/day					
Off-Road	0.6981	6.8542	9.5914	0.0140		0.3656	0.3656		0.3364	0.3364		1,356.5970	1,356.5970	0.4388		1,367.5658
Total	**0.6981**	**6.8542**	**9.5914**	**0.0140**		**0.3656**	**0.3656**		**0.3364**	**0.3364**		**1,356.5970**	**1,356.5970**	**0.4388**		**1,367.5658**

3.6 Trenching - 2022

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	lb/day										lb/day					
Hauling	1.6300e-003	0.0789	0.0103	1.1000e-004	1.5000e-004	3.0000e-005	1.8000e-004	4.0000e-005	3.0000e-005	7.0000e-005		11.1472	11.1472	2.7600e-003		11.2161
Vendor	5.9600e-003	0.2518	0.0526	2.9000e-004	8.1000e-004	9.0000e-005	9.0000e-004	2.4000e-004	9.0000e-005	3.3000e-004		30.0854	30.0854	7.2000e-003		30.2654
Worker	0.0583	0.0169	0.2489	2.0000e-004	9.2500e-003	4.1000e-004	9.6600e-003	2.5300e-003	3.8000e-004	2.9100e-003		19.3259	19.3259	1.2900e-003		19.3581
Total	**0.0659**	**0.3476**	**0.3118**	**6.0000e-004**	**0.0102**	**5.3000e-004**	**0.0107**	**2.8100e-003**	**5.0000e-004**	**3.3100e-003**		**60.5585**	**60.5585**	**0.0113**		**60.8397**

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	lb/day										lb/day					
Off-Road	0.1717	0.7439	10.5860	0.0140		0.0229	0.0229		0.0229	0.0229	0.0000	1,356.5970	1,356.5970	0.4388		1,367.5658
Total	**0.1717**	**0.7439**	**10.5860**	**0.0140**		**0.0229**	**0.0229**		**0.0229**	**0.0229**	**0.0000**	**1,356.5970**	**1,356.5970**	**0.4388**		**1,367.5658**

3.6 Trenching - 2022

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	lb/day										lb/day					
Hauling	1.6300e-003	0.0789	0.0103	1.1000e-004	1.5000e-004	3.0000e-005	1.8000e-004	4.0000e-005	3.0000e-005	7.0000e-005		11.1472	11.1472	2.7600e-003		11.2161
Vendor	5.9600e-003	0.2518	0.0526	2.9000e-004	8.1000e-004	9.0000e-005	9.0000e-004	2.4000e-004	9.0000e-005	3.3000e-004		30.0854	30.0854	7.2000e-003		30.2654
Worker	0.0583	0.0169	0.2489	2.0000e-004	9.2500e-003	4.1000e-004	9.6600e-003	2.5300e-003	3.8000e-004	2.9100e-003		19.3259	19.3259	1.2900e-003		19.3581
Total	**0.0659**	**0.3476**	**0.3118**	**6.0000e-004**	**0.0102**	**5.3000e-004**	**0.0107**	**2.8100e-003**	**5.0000e-004**	**3.3100e-003**		**60.5585**	**60.5585**	**0.0113**		**60.8397**

3.7 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	lb/day										lb/day					
Off-Road	0.5514	5.5624	7.2902	0.0114		0.2840	0.2840		0.2612	0.2612		1,103.8302	1,103.8302	0.3570		1,112.7552
Paving	0.2581					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8095**	**5.5624**	**7.2902**	**0.0114**		**0.2840**	**0.2840**		**0.2612**	**0.2612**		**1,103.8302**	**1,103.8302**	**0.3570**		**1,112.7552**

3.7 Paving - 2022

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	lb/day										lb/day					
Hauling	0.0245	1.1838	0.1542	1.5800e-003	2.2500e-003	4.4000e-004	2.6900e-003	6.4000e-004	4.3000e-004	1.0600e-003		167.2084	167.2084	0.0413		168.2419
Vendor	2.9800e-003	0.1259	0.0263	1.4000e-004	4.0000e-004	4.0000e-005	4.5000e-004	1.2000e-004	4.0000e-005	1.6000e-004		15.0427	15.0427	3.6000e-003		15.1327
Worker	0.0233	6.7500e-003	0.0996	8.0000e-005	3.7000e-003	1.6000e-004	3.8700e-003	1.0100e-003	1.5000e-004	1.1600e-003		7.7304	7.7304	5.2000e-004		7.7433
Total	**0.0508**	**1.3165**	**0.2800**	**1.8000e-003**	**6.3500e-003**	**6.4000e-004**	**7.0100e-003**	**1.7700e-003**	**6.2000e-004**	**2.3800e-003**		**189.9814**	**189.9814**	**0.0455**		**191.1179**

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	lb/day										lb/day					
Off-Road	0.1402	0.6077	8.6478	0.0114		0.0187	0.0187		0.0187	0.0187	0.0000	1,103.8302	1,103.8302	0.3570		1,112.7552
Paving	0.2581					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3983**	**0.6077**	**8.6478**	**0.0114**		**0.0187**	**0.0187**		**0.0187**	**0.0187**	**0.0000**	**1,103.8302**	**1,103.8302**	**0.3570**		**1,112.7552**

3.7 Paving - 2022

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	lb/day										lb/day					
Hauling	0.0245	1.1838	0.1542	1.5800e-003	2.2500e-003	4.4000e-004	2.6900e-003	6.4000e-004	4.3000e-004	1.0600e-003		167.2084	167.2084	0.0413		168.2419
Vendor	2.9800e-003	0.1259	0.0263	1.4000e-004	4.0000e-004	4.0000e-005	4.5000e-004	1.2000e-004	4.0000e-005	1.6000e-004		15.0427	15.0427	3.6000e-003		15.1327
Worker	0.0233	6.7500e-003	0.0996	8.0000e-005	3.7000e-003	1.6000e-004	3.8700e-003	1.0100e-003	1.5000e-004	1.1600e-003		7.7304	7.7304	5.2000e-004		7.7433
Total	**0.0508**	**1.3165**	**0.2800**	**1.8000e-003**	**6.3500e-003**	**6.4000e-004**	**7.0100e-003**	**1.7700e-003**	**6.2000e-004**	**2.3800e-003**		**189.9814**	**189.9814**	**0.0455**		**191.1179**

3.8 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	36.6434					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4091	2.8170	3.6272	5.9400e-003		0.1634	0.1634		0.1634	0.1634		562.8961	562.8961	0.0367		563.8123
Total	**37.0525**	**2.8170**	**3.6272**	**5.9400e-003**		**0.1634**	**0.1634**		**0.1634**	**0.1634**		**562.8961**	**562.8961**	**0.0367**		**563.8123**

3.8 Architectural Coating - 2022

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	lb/day										lb/day					
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
Vendor	2.9800e-003	0.1259	0.0263	1.4000e-004	4.0000e-004	4.0000e-005	4.5000e-004	1.2000e-004	4.0000e-005	1.6000e-004		15.0427	15.0427	3.6000e-003		15.1327
Worker	0.0291	8.4400e-003	0.1244	1.0000e-004	4.6300e-003	2.1000e-004	4.8300e-003	1.2700e-003	1.9000e-004	1.4500e-003		9.6629	9.6629	6.4000e-004		9.6791
Total	**0.0321**	**0.1344**	**0.1508**	**2.4000e-004**	**5.0300e-003**	**2.5000e-004**	**5.2800e-003**	**1.3900e-003**	**2.3000e-004**	**1.6100e-003**		**24.7057**	**24.7057**	**4.2400e-003**		**24.8118**

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	lb/day										lb/day					
Archit. Coating	36.6434					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0367		563.8123
Total	**36.7028**	**0.2575**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0367**		**563.8123**

3.8 Architectural Coating - 2022

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	lb/day										lb/day					
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
Vendor	2.9800e-003	0.1259	0.0263	1.4000e-004	4.0000e-004	4.0000e-005	4.5000e-004	1.2000e-004	4.0000e-005	1.6000e-004		15.0427	15.0427	3.6000e-003		15.1327
Worker	0.0291	8.4400e-003	0.1244	1.0000e-004	4.6300e-003	2.1000e-004	4.8300e-003	1.2700e-003	1.9000e-004	1.4500e-003		9.6629	9.6629	6.4000e-004		9.6791
Total	**0.0321**	**0.1344**	**0.1508**	**2.4000e-004**	**5.0300e-003**	**2.5000e-004**	**5.2800e-003**	**1.3900e-003**	**2.3000e-004**	**1.6100e-003**		**24.7057**	**24.7057**	**4.2400e-003**		**24.8118**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Limit Parking Supply

Implement Trip Reduction Program

Market Commute Trip Reduction Option

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6023	4.2666	2.6076	7.1500e-003	0.0770	4.1900e-003	0.0812	0.0206	3.8900e-003	0.0245		745.4717	745.4717	0.1281		748.6748
Unmitigated	0.6037	4.2762	2.6448	7.3600e-003	0.0963	4.3100e-003	0.1006	0.0258	4.0000e-003	0.0298		766.3104	766.3104	0.1287		769.5270

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Hospital	652.65	502.55	439.85	41,552	33,241
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	652.65	502.55	439.85	41,552	33,241

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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Hospital	0.00	0.19	0.00	0.00	100.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Hospital	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Other Asphalt Surfaces	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898

5.0 Energy Detail

Historical Energy Use: N

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	lb/day										lb/day					
NaturalGas Mitigated	0.8003	7.2752	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.2015	8,730.2015	0.1673	0.1601	8,782.0807
NaturalGas Unmitigated	0.8003	7.2752	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.2015	8,730.2015	0.1673	0.1601	8,782.0807

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	lb/day										lb/day					
General Light Industry	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
Hospital	74206.7	0.8003	7.2752	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.2015	8,730.2015	0.1673	0.1601	8,782.0807
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
Total		**0.8003**	**7.2752**	**6.1111**	**0.0437**		**0.5529**	**0.5529**		**0.5529**	**0.5529**		**8,730.2015**	**8,730.2015**	**0.1673**	**0.1601**	**8,782.0807**

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	lb/day										lb/day					
General Light Industry	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
Hospital	74.2067	0.8003	7.2752	6.1111	0.0437		0.5529	0.5529		0.5529	0.5529		8,730.2015	8,730.2015	0.1673	0.1601	8,782.0807
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
Total		**0.8003**	**7.2752**	**6.1111**	**0.0437**		**0.5529**	**0.5529**		**0.5529**	**0.5529**		**8,730.2015**	**8,730.2015**	**0.1673**	**0.1601**	**8,782.0807**

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	lb/day										lb/day					
Mitigated	2.5040	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473
Unmitigated	2.5040	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473

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	lb/day										lb/day					
Architectural Coating	0.1551					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9200e-003	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473
Total	**2.5041**	**1.9000e-004**	**0.0207**	**0.0000**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**		**0.0444**	**0.0444**	**1.2000e-004**		**0.0473**

6.2 Area by SubCategory

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	lb/day										lb/day					
Architectural Coating	0.1551					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9200e-003	1.9000e-004	0.0207	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0444	0.0444	1.2000e-004		0.0473
Total	**2.5041**	**1.9000e-004**	**0.0207**	**0.0000**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**		**0.0444**	**0.0444**	**1.2000e-004**		**0.0473**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	50	2667	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (750 - 9999 HP)	2.1884	1.0731	5.5799	0.0105		0.0429	0.0429		0.0429	0.0429		1,119.4921	1,119.4921	0.1570		1,123.4159
Total	**2.1884**	**1.0731**	**5.5799**	**0.0105**		**0.0429**	**0.0429**		**0.0429**	**0.0429**		**1,119.4921**	**1,119.4921**	**0.1570**		**1,123.4159**

11.0 Vegetation

Kaiser Moreno Valley - Phase II LST

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	380.00	1000sqft	8.72	380,000.00	0
Medical Office Building	65.00	1000sqft	1.49	65,000.00	0
General Light Industry	8.00	1000sqft	0.18	8,000.00	0
Enclosed Parking with Elevator	400.00	Space	3.60	160,000.00	0
Enclosed Parking with Elevator	1,400.00	Space	12.60	560,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	353.87	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - In accordance with SB 100 RPS goal of 60% by 2030.

Land Use - Based on project description.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - Based on applicant provided information. Grading is balanced onsite.

On-road Fugitive Dust - CalEEMod defaults.

Grading - CalEEMod defaults.

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Based on trip gen for Phase II.

Road Dust - CalEEMod defaults.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - Based on applicant provided information.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - water 3x daily and vehicle speed limit of 15 mph on unpaved roads.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation - All LED lighting. Assumes compliance with 2019 Title 24.

Water Mitigation -

Waste Mitigation - In accordance with AB 939.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	LightingElect	4.52	0.00
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24E	5.56	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	NT24NG	6.03	0.00
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	2.20	0.00
tblEnergyUse	T24E	8.35	11.60
tblEnergyUse	T24E	3.07	0.00
tblEnergyUse	T24NG	15.36	0.00
tblEnergyUse	T24NG	69.49	178.68
tblEnergyUse	T24NG	3.47	0.00
tblGrading	AcresOfGrading	70.00	112.50
tblGrading	AcresOfGrading	25.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19

tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripNumber	0.00	300.00
tblTripsAndVMT	HaulingTripNumber	0.00	200.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,300.00
tblTripsAndVMT	HaulingTripNumber	0.00	320.00
tblTripsAndVMT	HaulingTripNumber	0.00	96.00
tblTripsAndVMT	HaulingTripNumber	0.00	400.00
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	192.00	44.00
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tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19

tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
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tblTripsAndVMT	WorkerTripNumber	8.00	40.00
tblTripsAndVMT	WorkerTripNumber	15.00	28.00
tblTripsAndVMT	WorkerTripNumber	448.00	200.00
tblTripsAndVMT	WorkerTripNumber	10.00	60.00
tblTripsAndVMT	WorkerTripNumber	8.00	16.00
tblTripsAndVMT	WorkerTripNumber	90.00	28.00
tblVehicleTrips	CC_TL	8.40	0.19
tblVehicleTrips	CC_TL	8.40	0.19
tblVehicleTrips	CC_TTP	16.10	100.00
tblVehicleTrips	CC_TTP	51.40	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	64.90	0.00
tblVehicleTrips	CW_TTP	29.60	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	DV_TP	30.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	10.00	0.00
tblVehicleTrips	PR_TP	73.00	100.00

tblVehicleTrips	PR_TP	60.00	100.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	10.18	8.26
tblVehicleTrips	ST_TR	8.96	8.63
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	8.91	7.23
tblVehicleTrips	SU_TR	1.55	1.49
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	13.22	10.72
tblVehicleTrips	WD_TR	36.13	34.80

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2026	2.7436	22.7392	27.5786	0.0484	1.7130	0.7313	2.1766	0.1864	0.7001	0.7113	0.0000	4,466.3220	4,466.3220	0.8974	0.0000	4,488.7557
2027	2.7294	22.7246	27.5282	0.0484	0.0399	0.7313	0.7712	0.0112	0.7000	0.7112	0.0000	4,460.9916	4,460.9916	0.8955	0.0000	4,483.3782
2028	2.7164	22.7097	27.4857	0.0483	0.0401	0.7312	0.7713	0.0112	0.7000	0.7112	0.0000	4,456.3527	4,456.3527	0.8936	0.0000	4,478.6932
2029	33.2217	5.2219	7.4046	0.0129	4.8100e-003	0.2095	0.2143	1.3400e-003	0.1927	0.1941	0.0000	1,266.1158	1,266.1158	0.3769	0.0000	1,275.5390
Maximum	**33.2217**	**22.7392**	**27.5786**	**0.0484**	**1.7130**	**0.7313**	**2.1766**	**0.1864**	**0.7001**	**0.7113**	**0.0000**	**4,466.3220**	**4,466.3220**	**0.8974**	**0.0000**	**4,488.7557**

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2026	2.7436	22.7392	27.5786	0.0484	0.6733	0.7313	1.1369	0.0742	0.7001	0.7113	0.0000	4,466.3220	4,466.3220	0.8974	0.0000	4,488.7557
2027	2.7294	22.7246	27.5282	0.0484	0.0399	0.7313	0.7712	0.0112	0.7000	0.7112	0.0000	4,460.9916	4,460.9916	0.8955	0.0000	4,483.3782
2028	2.7164	22.7097	27.4857	0.0483	0.0401	0.7312	0.7713	0.0112	0.7000	0.7112	0.0000	4,456.3527	4,456.3527	0.8936	0.0000	4,478.6932
2029	33.2217	5.2219	7.4046	0.0129	4.8100e-003	0.2095	0.2143	1.3400e-003	0.1927	0.1941	0.0000	1,266.1158	1,266.1158	0.3769	0.0000	1,275.5390
Maximum	**33.2217**	**22.7392**	**27.5786**	**0.0484**	**0.6733**	**0.7313**	**1.1369**	**0.0742**	**0.7001**	**0.7113**	**0.0000**	**4,466.3220**	**4,466.3220**	**0.8974**	**0.0000**	**4,488.7557**

	ROG	NOx	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**	**57.83**	**0.00**	**26.43**	**53.41**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	lb/day										lb/day					
Area	9.8755	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249
Energy	2.0061	18.2376	15.3195	0.1094		1.3861	1.3861		1.3861	1.3861		21,885.0604	21,885.0604	0.4195	0.4012	22,015.1124
Mobile	5.2142	40.3299	14.8655	0.0722	0.9333	0.0311	0.9644	0.2495	0.0288	0.2783		7,569.2594	7,569.2594	0.8521		7,590.5626
Total	**17.0958**	**58.5695**	**30.4139**	**0.1817**	**0.9333**	**1.4180**	**2.3513**	**0.2495**	**1.4156**	**1.6652**		**29,454.8129**	**29,454.8129**	**1.2729**	**0.4012**	**29,606.1999**

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	lb/day										lb/day					
Area	9.8755	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249
Energy	1.4043	12.7663	10.7237	0.0766		0.9702	0.9702		0.9702	0.9702		15,319.5423	15,319.5423	0.2936	0.2809	15,410.5787
Mobile	5.2037	40.2752	14.5473	0.0704	0.7467	0.0303	0.7769	0.1996	0.0280	0.2276		7,386.1576	7,386.1576	0.8478		7,407.3535
Total	**16.4835**	**53.0436**	**25.4999**	**0.1470**	**0.7467**	**1.0013**	**1.7480**	**0.1996**	**0.9990**	**1.1987**		**22,706.1930**	**22,706.1930**	**1.1427**	**0.2809**	**22,818.4570**

	ROG	NOx	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	**3.58**	**9.43**	**16.16**	**19.06**	**20.00**	**29.38**	**25.66**	**20.00**	**29.43**	**28.02**	**0.00**	**22.91**	**22.91**	**10.22**	**30.00**	**22.93**

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	1/1/2026	1/28/2026	5	20	
2	Site Preparation	Site Preparation	1/29/2026	4/8/2026	5	50	
3	Grading	Grading	4/9/2026	7/15/2026	5	70	
4	Building Construction	Building Construction	7/16/2026	6/14/2028	5	500	
5	Trenching	Trenching	6/15/2028	12/27/2028	5	140	
6	Paving	Paving	12/28/2028	2/21/2029	5	40	
7	Architectural Coating	Architectural Coating	2/22/2029	5/30/2029	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 16.2

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 679,500; Non-Residential Outdoor: 226,500; Striped Parking Area: 43,200 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crawler Tractors	1	8.00	212	0.43
Demolition	Excavators	0	8.00	158	0.38

Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Other Construction Equipment	1	8.00	172	0.42
Building Construction	Rough Terrain Forklifts	2	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	6	8.00	46	0.45
Trenching	Excavators	1	8.00	158	0.38
Trenching	Rollers	1	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Architectural Coating	Air Compressors	2	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	3	40.00	4.00	300.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	40.00	4.00	200.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Grading	6	28.00	4.00	1,300.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Building Construction	13	200.00	44.00	320.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Trenching	4	60.00	4.00	96.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Paving	3	16.00	2.00	400.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	28.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 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	lb/day										lb/day					
Off-Road	0.7344	7.1515	5.8050	0.0172		0.2710	0.2710		0.2493	0.2493		1,665.9461	1,665.9461	0.5388		1,679.4161
Total	**0.7344**	**7.1515**	**5.8050**	**0.0172**		**0.2710**	**0.2710**		**0.2493**	**0.2493**		**1,665.9461**	**1,665.9461**	**0.5388**		**1,679.4161**

3.2 Demolition - 2026

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	lb/day										lb/day					
Hauling	0.0180	1.2490	0.0982	2.0800e-003	2.8100e-003	1.6000e-004	2.9700e-003	8.0000e-004	1.5000e-004	9.5000e-004		220.2381	220.2381	0.0300		220.9889
Vendor	3.8100e-003	0.2193	0.0314	3.0000e-004	8.1000e-004	3.0000e-005	8.4000e-004	2.4000e-004	3.0000e-005	2.7000e-004		31.6407	31.6407	4.2400e-003		31.7466
Worker	0.0399	6.9400e-003	0.1062	1.2000e-004	6.1700e-003	2.6000e-004	6.4300e-003	1.6900e-003	2.4000e-004	1.9200e-003		11.8050	11.8050	4.9000e-004		11.8173
Total	**0.0617**	**1.4753**	**0.2358**	**2.5000e-003**	**9.7900e-003**	**4.5000e-004**	**0.0102**	**2.7300e-003**	**4.2000e-004**	**3.1400e-003**		**263.6838**	**263.6838**	**0.0348**		**264.5528**

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	lb/day										lb/day					
Off-Road	0.7344	7.1515	5.8050	0.0172		0.2710	0.2710		0.2493	0.2493	0.0000	1,665.9461	1,665.9461	0.5388		1,679.4161
Total	**0.7344**	**7.1515**	**5.8050**	**0.0172**		**0.2710**	**0.2710**		**0.2493**	**0.2493**	**0.0000**	**1,665.9461**	**1,665.9461**	**0.5388**		**1,679.4161**

3.2 Demolition - 2026

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	lb/day										lb/day					
Hauling	0.0180	1.2490	0.0982	2.0800e-003	2.8100e-003	1.6000e-004	2.9700e-003	8.0000e-004	1.5000e-004	9.5000e-004		220.2381	220.2381	0.0300		220.9889
Vendor	3.8100e-003	0.2193	0.0314	3.0000e-004	8.1000e-004	3.0000e-005	8.4000e-004	2.4000e-004	3.0000e-005	2.7000e-004		31.6407	31.6407	4.2400e-003		31.7466
Worker	0.0399	6.9400e-003	0.1062	1.2000e-004	6.1700e-003	2.6000e-004	6.4300e-003	1.6900e-003	2.4000e-004	1.9200e-003		11.8050	11.8050	4.9000e-004		11.8173
Total	**0.0617**	**1.4753**	**0.2358**	**2.5000e-003**	**9.7900e-003**	**4.5000e-004**	**0.0102**	**2.7300e-003**	**4.2000e-004**	**3.1400e-003**		**263.6838**	**263.6838**	**0.0348**		**264.5528**

3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5754	6.1269	6.0534	0.0129		0.2194	0.2194		0.2019	0.2019		1,244.3513	1,244.3513	0.4025		1,254.4125
Total	**0.5754**	**6.1269**	**6.0534**	**0.0129**	**0.0000**	**0.2194**	**0.2194**	**0.0000**	**0.2019**	**0.2019**		**1,244.3513**	**1,244.3513**	**0.4025**		**1,254.4125**

3.3 Site Preparation - 2026

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	lb/day										lb/day					
Hauling	4.8000e-003	0.3331	0.0262	5.5000e-004	7.5000e-004	4.0000e-005	7.9000e-004	2.1000e-004	4.0000e-005	2.5000e-004		58.7302	58.7302	8.0100e-003		58.9304
Vendor	3.8100e-003	0.2193	0.0314	3.0000e-004	8.1000e-004	3.0000e-005	8.4000e-004	2.4000e-004	3.0000e-005	2.7000e-004		31.6407	31.6407	4.2400e-003		31.7466
Worker	0.0399	6.9400e-003	0.1062	1.2000e-004	6.1700e-003	2.6000e-004	6.4300e-003	1.6900e-003	2.4000e-004	1.9200e-003		11.8050	11.8050	4.9000e-004		11.8173
Total	**0.0485**	**0.5594**	**0.1638**	**9.7000e-004**	**7.7300e-003**	**3.3000e-004**	**8.0600e-003**	**2.1400e-003**	**3.1000e-004**	**2.4400e-003**		**102.1759**	**102.1759**	**0.0127**		**102.4943**

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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5754	6.1269	6.0534	0.0129		0.2194	0.2194		0.2019	0.2019	0.0000	1,244.3513	1,244.3513	0.4025		1,254.4125
Total	**0.5754**	**6.1269**	**6.0534**	**0.0129**	**0.0000**	**0.2194**	**0.2194**	**0.0000**	**0.2019**	**0.2019**	**0.0000**	**1,244.3513**	**1,244.3513**	**0.4025**		**1,254.4125**

3.3 Site Preparation - 2026

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	lb/day										lb/day					
Hauling	4.8000e-003	0.3331	0.0262	5.5000e-004	7.5000e-004	4.0000e-005	7.9000e-004	2.1000e-004	4.0000e-005	2.5000e-004		58.7302	58.7302	8.0100e-003		58.9304
Vendor	3.8100e-003	0.2193	0.0314	3.0000e-004	8.1000e-004	3.0000e-005	8.4000e-004	2.4000e-004	3.0000e-005	2.7000e-004		31.6407	31.6407	4.2400e-003		31.7466
Worker	0.0399	6.9400e-003	0.1062	1.2000e-004	6.1700e-003	2.6000e-004	6.4300e-003	1.6900e-003	2.4000e-004	1.9200e-003		11.8050	11.8050	4.9000e-004		11.8173
Total	**0.0485**	**0.5594**	**0.1638**	**9.7000e-004**	**7.7300e-003**	**3.3000e-004**	**8.0600e-003**	**2.1400e-003**	**3.1000e-004**	**2.4400e-003**		**102.1759**	**102.1759**	**0.0127**		**102.4943**

3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					1.7044	0.0000	1.7044	0.1840	0.0000	0.1840			0.0000			0.0000
Off-Road	1.1905	12.2482	12.7536	0.0273		0.4632	0.4632		0.4261	0.4261		2,638.9908	2,638.9908	0.8535		2,660.3283
Total	**1.1905**	**12.2482**	**12.7536**	**0.0273**	**1.7044**	**0.4632**	**2.1675**	**0.1840**	**0.4261**	**0.6101**		**2,638.9908**	**2,638.9908**	**0.8535**		**2,660.3283**

3.4 Grading - 2026

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	lb/day										lb/day					
Hauling	0.0223	1.5464	0.1216	2.5700e-003	3.4800e-003	2.0000e-004	3.6800e-003	9.9000e-004	1.9000e-004	1.1800e-003		272.6757	272.6757	0.0372		273.6052
Vendor	3.8100e-003	0.2193	0.0314	3.0000e-004	8.1000e-004	3.0000e-005	8.4000e-004	2.4000e-004	3.0000e-005	2.7000e-004		31.6407	31.6407	4.2400e-003		31.7466
Worker	0.0279	4.8600e-003	0.0743	8.0000e-005	4.3200e-003	1.8000e-004	4.5000e-003	1.1800e-003	1.7000e-004	1.3500e-003		8.2635	8.2635	3.4000e-004		8.2721
Total	**0.0540**	**1.7706**	**0.2273**	**2.9500e-003**	**8.6100e-003**	**4.1000e-004**	**9.0200e-003**	**2.4100e-003**	**3.9000e-004**	**2.8000e-003**		**312.5799**	**312.5799**	**0.0418**		**313.6240**

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	lb/day										lb/day					
Fugitive Dust					0.6647	0.0000	0.6647	0.0718	0.0000	0.0718			0.0000			0.0000
Off-Road	1.1905	12.2482	12.7536	0.0273		0.4632	0.4632		0.4261	0.4261	0.0000	2,638.9908	2,638.9908	0.8535		2,660.3283
Total	**1.1905**	**12.2482**	**12.7536**	**0.0273**	**0.6647**	**0.4632**	**1.1279**	**0.0718**	**0.4261**	**0.4979**	**0.0000**	**2,638.9908**	**2,638.9908**	**0.8535**		**2,660.3283**

3.4 Grading - 2026

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	lb/day										lb/day					
Hauling	0.0223	1.5464	0.1216	2.5700e-003	3.4800e-003	2.0000e-004	3.6800e-003	9.9000e-004	1.9000e-004	1.1800e-003		272.6757	272.6757	0.0372		273.6052
Vendor	3.8100e-003	0.2193	0.0314	3.0000e-004	8.1000e-004	3.0000e-005	8.4000e-004	2.4000e-004	3.0000e-005	2.7000e-004		31.6407	31.6407	4.2400e-003		31.7466
Worker	0.0279	4.8600e-003	0.0743	8.0000e-005	4.3200e-003	1.8000e-004	4.5000e-003	1.1800e-003	1.7000e-004	1.3500e-003		8.2635	8.2635	3.4000e-004		8.2721
Total	**0.0540**	**1.7706**	**0.2273**	**2.9500e-003**	**8.6100e-003**	**4.1000e-004**	**9.0200e-003**	**2.4100e-003**	**3.9000e-004**	**2.8000e-003**		**312.5799**	**312.5799**	**0.0418**		**313.6240**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986		4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**		**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2026

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	lb/day										lb/day					
Hauling	7.7000e-004	0.0533	4.1900e-003	9.0000e-005	3.7000e-004	1.0000e-005	3.8000e-004	1.0000e-004	1.0000e-005	1.0000e-004		9.3968	9.3968	1.2800e-003		9.4289
Vendor	0.0420	2.4127	0.3454	3.2900e-003	8.8800e-003	3.1000e-004	9.1900e-003	2.6800e-003	3.0000e-004	2.9700e-003		348.0476	348.0476	0.0466		349.2128
Worker	0.1994	0.0347	0.5310	6.0000e-004	0.0308	1.2900e-003	0.0321	8.4400e-003	1.1800e-003	9.6200e-003		59.0251	59.0251	2.4600e-003		59.0866
Total	**0.2421**	**2.5008**	**0.8806**	**3.9800e-003**	**0.0401**	**1.6100e-003**	**0.0417**	**0.0112**	**1.4900e-003**	**0.0127**		**416.4695**	**416.4695**	**0.0504**		**417.7282**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986	0.0000	4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**	**0.0000**	**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2026

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	lb/day										lb/day					
Hauling	7.7000e-004	0.0533	4.1900e-003	9.0000e-005	3.7000e-004	1.0000e-005	3.8000e-004	1.0000e-004	1.0000e-005	1.0000e-004		9.3968	9.3968	1.2800e-003		9.4289
Vendor	0.0420	2.4127	0.3454	3.2900e-003	8.8800e-003	3.1000e-004	9.1900e-003	2.6800e-003	3.0000e-004	2.9700e-003		348.0476	348.0476	0.0466		349.2128
Worker	0.1994	0.0347	0.5310	6.0000e-004	0.0308	1.2900e-003	0.0321	8.4400e-003	1.1800e-003	9.6200e-003		59.0251	59.0251	2.4600e-003		59.0866
Total	**0.2421**	**2.5008**	**0.8806**	**3.9800e-003**	**0.0401**	**1.6100e-003**	**0.0417**	**0.0112**	**1.4900e-003**	**0.0127**		**416.4695**	**416.4695**	**0.0504**		**417.7282**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986		4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**		**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2027

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	lb/day										lb/day					
Hauling	7.6000e-004	0.0530	4.2200e-003	9.0000e-005	1.9000e-004	1.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	6.0000e-005		9.3037	9.3037	1.2400e-003		9.3347
Vendor	0.0410	2.4018	0.3352	3.2600e-003	8.8800e-003	3.0000e-004	9.1800e-003	2.6800e-003	2.8000e-004	2.9600e-003		344.7762	344.7762	0.0450		345.9016
Worker	0.1862	0.0314	0.4908	5.8000e-004	0.0308	1.2400e-003	0.0321	8.4400e-003	1.1400e-003	9.5800e-003		57.0592	57.0592	2.2100e-003		57.1145
Total	**0.2280**	**2.4861**	**0.8302**	**3.9300e-003**	**0.0399**	**1.5500e-003**	**0.0415**	**0.0112**	**1.4300e-003**	**0.0126**		**411.1391**	**411.1391**	**0.0485**		**412.3507**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986	0.0000	4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**	**0.0000**	**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2027

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	lb/day										lb/day					
Hauling	7.6000e-004	0.0530	4.2200e-003	9.0000e-005	1.9000e-004	1.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	6.0000e-005		9.3037	9.3037	1.2400e-003		9.3347
Vendor	0.0410	2.4018	0.3352	3.2600e-003	8.8800e-003	3.0000e-004	9.1800e-003	2.6800e-003	2.8000e-004	2.9600e-003		344.7762	344.7762	0.0450		345.9016
Worker	0.1862	0.0314	0.4908	5.8000e-004	0.0308	1.2400e-003	0.0321	8.4400e-003	1.1400e-003	9.5800e-003		57.0592	57.0592	2.2100e-003		57.1145
Total	**0.2280**	**2.4861**	**0.8302**	**3.9300e-003**	**0.0399**	**1.5500e-003**	**0.0415**	**0.0112**	**1.4300e-003**	**0.0126**		**411.1391**	**411.1391**	**0.0485**		**412.3507**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986		4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**		**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2028

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	lb/day										lb/day					
Hauling	7.5000e-004	0.0528	4.2600e-003	9.0000e-005	3.8000e-004	1.0000e-005	3.9000e-004	1.0000e-004	1.0000e-005	1.0000e-004		9.2240	9.2240	1.1900e-003		9.2538
Vendor	0.0402	2.3900	0.3277	3.2300e-003	8.8800e-003	2.9000e-004	9.1700e-003	2.6800e-003	2.7000e-004	2.9500e-003		341.9612	341.9612	0.0434		343.0470
Worker	0.1740	0.0284	0.4558	5.6000e-004	0.0308	1.1700e-003	0.0320	8.4400e-003	1.0800e-003	9.5100e-003		55.3150	55.3150	2.0000e-003		55.3649
Total	**0.2149**	**2.4712**	**0.7877**	**3.8800e-003**	**0.0401**	**1.4700e-003**	**0.0416**	**0.0112**	**1.3600e-003**	**0.0126**		**406.5002**	**406.5002**	**0.0466**		**407.6657**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986	0.0000	4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**	**0.0000**	**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2028

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	lb/day										lb/day					
Hauling	7.5000e-004	0.0528	4.2600e-003	9.0000e-005	3.8000e-004	1.0000e-005	3.9000e-004	1.0000e-004	1.0000e-005	1.0000e-004		9.2240	9.2240	1.1900e-003		9.2538
Vendor	0.0402	2.3900	0.3277	3.2300e-003	8.8800e-003	2.9000e-004	9.1700e-003	2.6800e-003	2.7000e-004	2.9500e-003		341.9612	341.9612	0.0434		343.0470
Worker	0.1740	0.0284	0.4558	5.6000e-004	0.0308	1.1700e-003	0.0320	8.4400e-003	1.0800e-003	9.5100e-003		55.3150	55.3150	2.0000e-003		55.3649
Total	**0.2149**	**2.4712**	**0.7877**	**3.8800e-003**	**0.0401**	**1.4700e-003**	**0.0416**	**0.0112**	**1.3600e-003**	**0.0126**		**406.5002**	**406.5002**	**0.0466**		**407.6657**

3.6 Trenching - 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	lb/day										lb/day					
Off-Road	0.5683	5.3349	9.5654	0.0140		0.2407	0.2407		0.2214	0.2214		1,358.5115	1,358.5115	0.4394		1,369.4958
Total	**0.5683**	**5.3349**	**9.5654**	**0.0140**		**0.2407**	**0.2407**		**0.2214**	**0.2214**		**1,358.5115**	**1,358.5115**	**0.4394**		**1,369.4958**

3.6 Trenching - 2028

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	lb/day										lb/day					
Hauling	8.1000e-004	0.0565	4.5600e-003	9.0000e-005	1.3000e-004	1.0000e-005	1.3000e-004	4.0000e-005	1.0000e-005	4.0000e-005		9.8828	9.8828	1.2800e-003		9.9148
Vendor	3.6500e-003	0.2173	0.0298	2.9000e-004	8.1000e-004	3.0000e-005	8.3000e-004	2.4000e-004	2.0000e-005	2.7000e-004		31.0874	31.0874	3.9500e-003		31.1861
Worker	0.0522	8.5100e-003	0.1367	1.7000e-004	9.2500e-003	3.5000e-004	9.6000e-003	2.5300e-003	3.2000e-004	2.8500e-003		16.5945	16.5945	6.0000e-004		16.6095
Total	**0.0567**	**0.2823**	**0.1711**	**5.5000e-004**	**0.0102**	**3.9000e-004**	**0.0106**	**2.8100e-003**	**3.5000e-004**	**3.1600e-003**		**57.5647**	**57.5647**	**5.8300e-003**		**57.7104**

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	lb/day										lb/day					
Off-Road	0.5683	5.3349	9.5654	0.0140		0.2407	0.2407		0.2214	0.2214	0.0000	1,358.5115	1,358.5115	0.4394		1,369.4958
Total	**0.5683**	**5.3349**	**9.5654**	**0.0140**		**0.2407**	**0.2407**		**0.2214**	**0.2214**	**0.0000**	**1,358.5115**	**1,358.5115**	**0.4394**		**1,369.4958**

3.6 Trenching - 2028

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	lb/day										lb/day					
Hauling	8.1000e-004	0.0565	4.5600e-003	9.0000e-005	1.3000e-004	1.0000e-005	1.3000e-004	4.0000e-005	1.0000e-005	4.0000e-005		9.8828	9.8828	1.2800e-003		9.9148
Vendor	3.6500e-003	0.2173	0.0298	2.9000e-004	8.1000e-004	3.0000e-005	8.3000e-004	2.4000e-004	2.0000e-005	2.7000e-004		31.0874	31.0874	3.9500e-003		31.1861
Worker	0.0522	8.5100e-003	0.1367	1.7000e-004	9.2500e-003	3.5000e-004	9.6000e-003	2.5300e-003	3.2000e-004	2.8500e-003		16.5945	16.5945	6.0000e-004		16.6095
Total	**0.0567**	**0.2823**	**0.1711**	**5.5000e-004**	**0.0102**	**3.9000e-004**	**0.0106**	**2.8100e-003**	**3.5000e-004**	**3.1600e-003**		**57.5647**	**57.5647**	**5.8300e-003**		**57.7104**

3.7 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	lb/day										lb/day					
Off-Road	0.4576	4.2908	7.2890	0.0114		0.2093	0.2093		0.1925	0.1925		1,103.3726	1,103.3726	0.3569		1,112.2939
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4576**	**4.2908**	**7.2890**	**0.0114**		**0.2093**	**0.2093**		**0.1925**	**0.1925**		**1,103.3726**	**1,103.3726**	**0.3569**		**1,112.2939**

3.7 Paving - 2028

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	lb/day										lb/day					
Hauling	0.0118	0.8245	0.0666	1.3600e-003	0.0257	1.0000e-004	0.0258	6.3900e-003	9.0000e-005	6.4800e-003		144.1244	144.1244	0.0187		144.5907
Vendor	1.8300e-003	0.1086	0.0149	1.5000e-004	4.0000e-004	1.0000e-005	4.2000e-004	1.2000e-004	1.0000e-005	1.3000e-004		15.5437	15.5437	1.9700e-003		15.5931
Worker	0.0139	2.2700e-003	0.0365	4.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	9.0000e-005	7.6000e-004		4.4252	4.4252	1.6000e-004		4.4292
Total	**0.0275**	**0.9354**	**0.1179**	**1.5500e-003**	**0.0286**	**2.0000e-004**	**0.0288**	**7.1800e-003**	**1.9000e-004**	**7.3700e-003**		**164.0932**	**164.0932**	**0.0208**		**164.6130**

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	lb/day										lb/day					
Off-Road	0.4576	4.2908	7.2890	0.0114		0.2093	0.2093		0.1925	0.1925	0.0000	1,103.3726	1,103.3726	0.3569		1,112.2939
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4576**	**4.2908**	**7.2890**	**0.0114**		**0.2093**	**0.2093**		**0.1925**	**0.1925**	**0.0000**	**1,103.3726**	**1,103.3726**	**0.3569**		**1,112.2939**

3.7 Paving - 2028

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	lb/day										lb/day					
Hauling	0.0118	0.8245	0.0666	1.3600e-003	0.0257	1.0000e-004	0.0258	6.3900e-003	9.0000e-005	6.4800e-003		144.1244	144.1244	0.0187		144.5907
Vendor	1.8300e-003	0.1086	0.0149	1.5000e-004	4.0000e-004	1.0000e-005	4.2000e-004	1.2000e-004	1.0000e-005	1.3000e-004		15.5437	15.5437	1.9700e-003		15.5931
Worker	0.0139	2.2700e-003	0.0365	4.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	9.0000e-005	7.6000e-004		4.4252	4.4252	1.6000e-004		4.4292
Total	**0.0275**	**0.9354**	**0.1179**	**1.5500e-003**	**0.0286**	**2.0000e-004**	**0.0288**	**7.1800e-003**	**1.9000e-004**	**7.3700e-003**		**164.0932**	**164.0932**	**0.0208**		**164.6130**

3.7 Paving - 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	lb/day										lb/day					
Off-Road	0.4576	4.2908	7.2890	0.0114		0.2093	0.2093		0.1925	0.1925		1,103.3726	1,103.3726	0.3569		1,112.2939
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4576**	**4.2908**	**7.2890**	**0.0114**		**0.2093**	**0.2093**		**0.1925**	**0.1925**		**1,103.3726**	**1,103.3726**	**0.3569**		**1,112.2939**

3.7 Paving - 2029

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	lb/day										lb/day					
Hauling	0.0117	0.8209	0.0672	1.3500e-003	1.9400e-003	9.0000e-005	2.0300e-003	5.5000e-004	9.0000e-005	6.4000e-004		143.0124	143.0124	0.0180		143.4630
Vendor	1.8000e-003	0.1081	0.0146	1.5000e-004	4.0000e-004	1.0000e-005	4.2000e-004	1.2000e-004	1.0000e-005	1.3000e-004		15.4295	15.4295	1.9100e-003		15.4772
Worker	0.0129	2.0600e-003	0.0338	4.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	8.0000e-005	7.6000e-004		4.3013	4.3013	1.4000e-004		4.3049
Total	**0.0265**	**0.9311**	**0.1157**	**1.5400e-003**	**4.8100e-003**	**1.9000e-004**	**5.0100e-003**	**1.3400e-003**	**1.8000e-004**	**1.5300e-003**		**162.7432**	**162.7432**	**0.0201**		**163.2451**

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	lb/day										lb/day					
Off-Road	0.4576	4.2908	7.2890	0.0114		0.2093	0.2093		0.1925	0.1925	0.0000	1,103.3726	1,103.3726	0.3569		1,112.2939
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4576**	**4.2908**	**7.2890**	**0.0114**		**0.2093**	**0.2093**		**0.1925**	**0.1925**	**0.0000**	**1,103.3726**	**1,103.3726**	**0.3569**		**1,112.2939**

3.7 Paving - 2029

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	lb/day										lb/day					
Hauling	0.0117	0.8209	0.0672	1.3500e-003	1.9400e-003	9.0000e-005	2.0300e-003	5.5000e-004	9.0000e-005	6.4000e-004		143.0124	143.0124	0.0180		143.4630
Vendor	1.8000e-003	0.1081	0.0146	1.5000e-004	4.0000e-004	1.0000e-005	4.2000e-004	1.2000e-004	1.0000e-005	1.3000e-004		15.4295	15.4295	1.9100e-003		15.4772
Worker	0.0129	2.0600e-003	0.0338	4.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	8.0000e-005	7.6000e-004		4.3013	4.3013	1.4000e-004		4.3049
Total	**0.0265**	**0.9311**	**0.1157**	**1.5400e-003**	**4.8100e-003**	**1.9000e-004**	**5.0100e-003**	**1.3400e-003**	**1.8000e-004**	**1.5300e-003**		**162.7432**	**162.7432**	**0.0201**		**163.2451**

3.8 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	32.8555					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	**33.1973**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.6637**

3.8 Architectural Coating - 2029

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	lb/day										lb/day					
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
Vendor	1.8000e-003	0.1081	0.0146	1.5000e-004	4.0000e-004	1.0000e-005	4.2000e-004	1.2000e-004	1.0000e-005	1.3000e-004		15.4295	15.4295	1.9100e-003		15.4772
Worker	0.0226	3.6000e-003	0.0592	8.0000e-005	4.3200e-003	1.5000e-004	4.4700e-003	1.1800e-003	1.4000e-004	1.3200e-003		7.5272	7.5272	2.5000e-004		7.5335
Total	**0.0244**	**0.1117**	**0.0738**	**2.3000e-004**	**4.7200e-003**	**1.6000e-004**	**4.8900e-003**	**1.3000e-003**	**1.5000e-004**	**1.4500e-003**		**22.9567**	**22.9567**	**2.1600e-003**		**23.0107**

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	lb/day										lb/day					
Archit. Coating	32.8555					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637
Total	**33.1973**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.6637**

3.8 Architectural Coating - 2029

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	lb/day										lb/day					
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
Vendor	1.8000e-003	0.1081	0.0146	1.5000e-004	4.0000e-004	1.0000e-005	4.2000e-004	1.2000e-004	1.0000e-005	1.3000e-004		15.4295	15.4295	1.9100e-003		15.4772
Worker	0.0226	3.6000e-003	0.0592	8.0000e-005	4.3200e-003	1.5000e-004	4.4700e-003	1.1800e-003	1.4000e-004	1.3200e-003		7.5272	7.5272	2.5000e-004		7.5335
Total	**0.0244**	**0.1117**	**0.0738**	**2.3000e-004**	**4.7200e-003**	**1.6000e-004**	**4.8900e-003**	**1.3000e-003**	**1.5000e-004**	**1.4500e-003**		**22.9567**	**22.9567**	**2.1600e-003**		**23.0107**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Limit Parking Supply

Implement Trip Reduction Program

Market Commute Trip Reduction Option

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.2037	40.2752	14.5473	0.0704	0.7467	0.0303	0.7769	0.1996	0.0280	0.2276		7,386.1576	7,386.1576	0.8478		7,407.3535
Unmitigated	5.2142	40.3299	14.8655	0.0722	0.9333	0.0311	0.9644	0.2495	0.0288	0.2783		7,569.2594	7,569.2594	0.8521		7,590.5626

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Light Industry	0.00	0.00	0.00		
Hospital	4,073.60	3,138.80	2747.40	259,391	207,513
Medical Office Building	2,262.00	560.95	96.85	118,242	94,593
Total	6,335.60	3,699.75	2,844.25	377,633	302,107

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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Hospital	0.00	0.19	0.00	0.00	100.00	0.00	100	0	0
Medical Office Building	0.00	0.19	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
General Light Industry	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Hospital	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Medical Office Building	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.4043	12.7663	10.7237	0.0766		0.9702	0.9702		0.9702	0.9702		15,319.5423	15,319.5423	0.2936	0.2809	15,410.5787
NaturalGas Unmitigated	2.0061	18.2376	15.3195	0.1094		1.3861	1.3861		1.3861	1.3861		21,885.0604	21,885.0604	0.4195	0.4012	22,015.1124

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	lb/day										lb/day					
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
General Light Industry	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
Hospital	186023	2.0061	18.2376	15.3195	0.1094		1.3861	1.3861		1.3861	1.3861		21,885.0604	21,885.0604	0.4195	0.4012	22,015.1124
Medical Office Building	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
Total		**2.0061**	**18.2376**	**15.3195**	**0.1094**		**1.3861**	**1.3861**		**1.3861**	**1.3861**		**21,885.0604**	**21,885.0604**	**0.4195**	**0.4012**	**22,015.1124**

5.2 Energy by Land Use - NaturalGas

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	lb/day										lb/day					
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
General Light Industry	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
Hospital	130.216	1.4043	12.7663	10.7237	0.0766		0.9702	0.9702		0.9702	0.9702		15,319.5423	15,319.5423	0.2936	0.2809	15,410.5787
Medical Office Building	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
Total		**1.4043**	**12.7663**	**10.7237**	**0.0766**		**0.9702**	**0.9702**		**0.9702**	**0.9702**		**15,319.5423**	**15,319.5423**	**0.2936**	**0.2809**	**15,410.5787**

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	lb/day										lb/day					
Mitigated	9.8755	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249
Unmitigated	9.8755	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249

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	lb/day										lb/day					
Architectural Coating	0.6301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.2244					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0209	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249
Total	**9.8755**	**2.0600e-003**	**0.2289**	**2.0000e-005**		**8.1000e-004**	**8.1000e-004**		**8.1000e-004**	**8.1000e-004**		**0.4931**	**0.4931**	**1.2700e-003**		**0.5249**

6.2 Area by SubCategory

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	lb/day										lb/day					
Architectural Coating	0.6301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.2244					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0209	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249
Total	**9.8755**	**2.0600e-003**	**0.2289**	**2.0000e-005**		**8.1000e-004**	**8.1000e-004**		**8.1000e-004**	**8.1000e-004**		**0.4931**	**0.4931**	**1.2700e-003**		**0.5249**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Kaiser Moreno Valley - Phase II LST

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	380.00	1000sqft	8.72	380,000.00	0
Medical Office Building	65.00	1000sqft	1.49	65,000.00	0
General Light Industry	8.00	1000sqft	0.18	8,000.00	0
Enclosed Parking with Elevator	400.00	Space	3.60	160,000.00	0
Enclosed Parking with Elevator	1,400.00	Space	12.60	560,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	353.87	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - In accordance with SB 100 RPS goal of 60% by 2030.

Land Use - Based on project description.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - Based on applicant provided information. Grading is balanced onsite.

On-road Fugitive Dust - CalEEMod defaults.

Grading - CalEEMod defaults.

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Based on trip gen for Phase II.

Road Dust - CalEEMod defaults.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - Based on applicant provided information.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - water 3x daily and vehicle speed limit of 15 mph on unpaved roads.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation - All LED lighting. Assumes compliance with 2019 Title 24.

Water Mitigation -

Waste Mitigation - In accordance with AB 939.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	35.00	70.00
tblConstructionPhase	NumDays	440.00	500.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	NumDays	45.00	70.00
tblConstructionPhase	NumDays	35.00	40.00
tblConstructionPhase	NumDays	20.00	50.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	LightingElect	4.52	0.00
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24E	5.56	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	NT24NG	6.03	0.00
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	2.20	0.00
tblEnergyUse	T24E	8.35	11.60

tblEnergyUse	T24E	3.07	0.00
tblEnergyUse	T24NG	15.36	0.00
tblEnergyUse	T24NG	69.49	178.68
tblEnergyUse	T24NG	3.47	0.00
tblGrading	AcresOfGrading	70.00	112.50
tblGrading	AcresOfGrading	25.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19

tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripNumber	0.00	300.00
tblTripsAndVMT	HaulingTripNumber	0.00	200.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,300.00
tblTripsAndVMT	HaulingTripNumber	0.00	320.00
tblTripsAndVMT	HaulingTripNumber	0.00	96.00
tblTripsAndVMT	HaulingTripNumber	0.00	400.00
tblTripsAndVMT	VendorTripLength	6.90	0.19
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tblTripsAndVMT	VendorTripLength	6.90	0.19
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tblTripsAndVMT	VendorTripNumber	0.00	4.00
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tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19

tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripNumber	8.00	40.00
tblTripsAndVMT	WorkerTripNumber	8.00	40.00
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tblTripsAndVMT	WorkerTripNumber	448.00	200.00
tblTripsAndVMT	WorkerTripNumber	10.00	60.00
tblTripsAndVMT	WorkerTripNumber	8.00	16.00
tblTripsAndVMT	WorkerTripNumber	90.00	28.00
tblVehicleTrips	CC_TL	8.40	0.19
tblVehicleTrips	CC_TL	8.40	0.19
tblVehicleTrips	CC_TTP	16.10	100.00
tblVehicleTrips	CC_TTP	51.40	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
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tblVehicleTrips	CNW_TTP	19.00	0.00
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tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	64.90	0.00
tblVehicleTrips	CW_TTP	29.60	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	DV_TP	30.00	0.00
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tblVehicleTrips	PB_TP	10.00	0.00
tblVehicleTrips	PR_TP	73.00	100.00

tblVehicleTrips	PR_TP	60.00	100.00
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tblVehicleTrips	SU_TR	0.68	0.00
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tblVehicleTrips	SU_TR	1.55	1.49
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	13.22	10.72
tblVehicleTrips	WD_TR	36.13	34.80

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2026	2.6906	22.6775	27.7185	0.0480	1.7130	0.7314	2.1766	0.1864	0.7002	0.7114	0.0000	4,420.0772	4,420.0772	0.9040	0.0000	4,442.6780
2027	2.6796	22.6633	27.6626	0.0479	0.0399	0.7314	0.7713	0.0112	0.7001	0.7113	0.0000	4,415.2946	4,415.2946	0.9019	0.0000	4,437.8422
2028	2.6695	22.6487	27.6154	0.0479	0.0401	0.7313	0.7714	0.0112	0.7000	0.7113	0.0000	4,411.1307	4,411.1307	0.8998	0.0000	4,433.6262
2029	33.2152	5.1921	7.4415	0.0128	4.8100e-003	0.2095	0.2143	1.3400e-003	0.1927	0.1941	0.0000	1,246.1111	1,246.1111	0.3797	0.0000	1,255.6029
Maximum	**33.2152**	**22.6775**	**27.7185**	**0.0480**	**1.7130**	**0.7314**	**2.1766**	**0.1864**	**0.7002**	**0.7114**	**0.0000**	**4,420.0772**	**4,420.0772**	**0.9040**	**0.0000**	**4,442.6780**

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2026	2.6906	22.6775	27.7185	0.0480	0.6733	0.7314	1.1370	0.0742	0.7002	0.7114	0.0000	4,420.0772	4,420.0772	0.9040	0.0000	4,442.6780
2027	2.6796	22.6633	27.6626	0.0479	0.0399	0.7314	0.7713	0.0112	0.7001	0.7113	0.0000	4,415.2946	4,415.2946	0.9019	0.0000	4,437.8422
2028	2.6695	22.6487	27.6154	0.0479	0.0401	0.7313	0.7714	0.0112	0.7000	0.7113	0.0000	4,411.1307	4,411.1307	0.8998	0.0000	4,433.6262
2029	33.2152	5.1921	7.4415	0.0128	4.8100e-003	0.2095	0.2143	1.3400e-003	0.1927	0.1941	0.0000	1,246.1111	1,246.1111	0.3797	0.0000	1,255.6029
Maximum	**33.2152**	**22.6775**	**27.7185**	**0.0480**	**0.6733**	**0.7314**	**1.1370**	**0.0742**	**0.7002**	**0.7114**	**0.0000**	**4,420.0772**	**4,420.0772**	**0.9040**	**0.0000**	**4,442.6780**

	ROG	NOx	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**	**57.83**	**0.00**	**26.43**	**53.41**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	lb/day										lb/day					
Area	9.8755	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249
Energy	2.0061	18.2376	15.3195	0.1094		1.3861	1.3861		1.3861	1.3861		21,885.0604	21,885.0604	0.4195	0.4012	22,015.1124
Mobile	4.1047	39.1514	17.4013	0.0641	0.9333	0.0322	0.9655	0.2495	0.0298	0.2793		6,710.8959	6,710.8959	0.9654		6,735.0307
Total	**15.9863**	**57.3911**	**32.9497**	**0.1736**	**0.9333**	**1.4191**	**2.3524**	**0.2495**	**1.4167**	**1.6662**		**28,596.4494**	**28,596.4494**	**1.3861**	**0.4012**	**28,750.6680**

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	lb/day										lb/day					
Area	9.8755	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249
Energy	1.4043	12.7663	10.7237	0.0766		0.9702	0.9702		0.9702	0.9702		15,319.5423	15,319.5423	0.2936	0.2809	15,410.5787
Mobile	4.0948	39.0940	17.1454	0.0624	0.7467	0.0314	0.7780	0.1996	0.0290	0.2286		6,539.8105	6,539.8105	0.9613		6,563.8432
Total	**15.3745**	**51.8624**	**28.0979**	**0.1391**	**0.7467**	**1.0024**	**1.7491**	**0.1996**	**1.0001**	**1.1997**		**21,859.8459**	**21,859.8459**	**1.2562**	**0.2809**	**21,974.9468**

	ROG	NOx	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	**3.83**	**9.63**	**14.72**	**19.88**	**20.00**	**29.36**	**25.65**	**20.00**	**29.41**	**28.00**	**0.00**	**23.56**	**23.56**	**9.37**	**30.00**	**23.57**

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	1/1/2026	1/28/2026	5	20	
2	Site Preparation	Site Preparation	1/29/2026	4/8/2026	5	50	
3	Grading	Grading	4/9/2026	7/15/2026	5	70	
4	Building Construction	Building Construction	7/16/2026	6/14/2028	5	500	
5	Trenching	Trenching	6/15/2028	12/27/2028	5	140	
6	Paving	Paving	12/28/2028	2/21/2029	5	40	
7	Architectural Coating	Architectural Coating	2/22/2029	5/30/2029	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 16.2

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 679,500; Non-Residential Outdoor: 226,500; Striped Parking Area: 43,200 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crawler Tractors	1	8.00	212	0.43
Demolition	Excavators	0	8.00	158	0.38

Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Other Construction Equipment	1	8.00	172	0.42
Building Construction	Rough Terrain Forklifts	2	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	6	8.00	46	0.45
Trenching	Excavators	1	8.00	158	0.38
Trenching	Rollers	1	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Architectural Coating	Air Compressors	2	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	3	40.00	4.00	300.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	40.00	4.00	200.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Grading	6	28.00	4.00	1,300.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Building Construction	13	200.00	44.00	320.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Trenching	4	60.00	4.00	96.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Paving	3	16.00	2.00	400.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	28.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 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	lb/day										lb/day					
Off-Road	0.7344	7.1515	5.8050	0.0172		0.2710	0.2710		0.2493	0.2493		1,665.9461	1,665.9461	0.5388		1,679.4161
Total	**0.7344**	**7.1515**	**5.8050**	**0.0172**		**0.2710**	**0.2710**		**0.2493**	**0.2493**		**1,665.9461**	**1,665.9461**	**0.5388**		**1,679.4161**

3.2 Demolition - 2026

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	lb/day										lb/day					
Hauling	0.0204	1.2072	0.1439	1.8200e-003	2.8100e-003	2.1000e-004	3.0200e-003	8.0000e-004	2.0000e-004	1.0000e-003		192.6272	192.6272	0.0342		193.4810
Vendor	4.1700e-003	0.2138	0.0395	2.6000e-004	8.1000e-004	4.0000e-005	8.4000e-004	2.4000e-004	3.0000e-005	2.8000e-004		27.8663	27.8663	4.8000e-003		27.9864
Worker	0.0285	7.1900e-003	0.1160	1.1000e-004	6.1700e-003	2.6000e-004	6.4300e-003	1.6900e-003	2.4000e-004	1.9200e-003		11.0953	11.0953	5.4000e-004		11.1090
Total	**0.0531**	**1.4281**	**0.2994**	**2.1900e-003**	**9.7900e-003**	**5.1000e-004**	**0.0103**	**2.7300e-003**	**4.7000e-004**	**3.2000e-003**		**231.5889**	**231.5889**	**0.0395**		**232.5763**

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	lb/day										lb/day					
Off-Road	0.7344	7.1515	5.8050	0.0172		0.2710	0.2710		0.2493	0.2493	0.0000	1,665.9461	1,665.9461	0.5388		1,679.4161
Total	**0.7344**	**7.1515**	**5.8050**	**0.0172**		**0.2710**	**0.2710**		**0.2493**	**0.2493**	**0.0000**	**1,665.9461**	**1,665.9461**	**0.5388**		**1,679.4161**

3.2 Demolition - 2026

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	lb/day										lb/day					
Hauling	0.0204	1.2072	0.1439	1.8200e-003	2.8100e-003	2.1000e-004	3.0200e-003	8.0000e-004	2.0000e-004	1.0000e-003		192.6272	192.6272	0.0342		193.4810
Vendor	4.1700e-003	0.2138	0.0395	2.6000e-004	8.1000e-004	4.0000e-005	8.4000e-004	2.4000e-004	3.0000e-005	2.8000e-004		27.8663	27.8663	4.8000e-003		27.9864
Worker	0.0285	7.1900e-003	0.1160	1.1000e-004	6.1700e-003	2.6000e-004	6.4300e-003	1.6900e-003	2.4000e-004	1.9200e-003		11.0953	11.0953	5.4000e-004		11.1090
Total	**0.0531**	**1.4281**	**0.2994**	**2.1900e-003**	**9.7900e-003**	**5.1000e-004**	**0.0103**	**2.7300e-003**	**4.7000e-004**	**3.2000e-003**		**231.5889**	**231.5889**	**0.0395**		**232.5763**

3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5754	6.1269	6.0534	0.0129		0.2194	0.2194		0.2019	0.2019		1,244.3513	1,244.3513	0.4025		1,254.4125
Total	**0.5754**	**6.1269**	**6.0534**	**0.0129**	**0.0000**	**0.2194**	**0.2194**	**0.0000**	**0.2019**	**0.2019**		**1,244.3513**	**1,244.3513**	**0.4025**		**1,254.4125**

3.3 Site Preparation - 2026

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	lb/day										lb/day					
Hauling	5.4500e-003	0.3219	0.0384	4.8000e-004	7.5000e-004	6.0000e-005	8.0000e-004	2.1000e-004	5.0000e-005	2.7000e-004		51.3673	51.3673	9.1100e-003		51.5949
Vendor	4.1700e-003	0.2138	0.0395	2.6000e-004	8.1000e-004	4.0000e-005	8.4000e-004	2.4000e-004	3.0000e-005	2.8000e-004		27.8663	27.8663	4.8000e-003		27.9864
Worker	0.0285	7.1900e-003	0.1160	1.1000e-004	6.1700e-003	2.6000e-004	6.4300e-003	1.6900e-003	2.4000e-004	1.9200e-003		11.0953	11.0953	5.4000e-004		11.1090
Total	**0.0381**	**0.5429**	**0.1939**	**8.5000e-004**	**7.7300e-003**	**3.6000e-004**	**8.0700e-003**	**2.1400e-003**	**3.2000e-004**	**2.4700e-003**		**90.3289**	**90.3289**	**0.0145**		**90.6903**

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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5754	6.1269	6.0534	0.0129		0.2194	0.2194		0.2019	0.2019	0.0000	1,244.3513	1,244.3513	0.4025		1,254.4125
Total	**0.5754**	**6.1269**	**6.0534**	**0.0129**	**0.0000**	**0.2194**	**0.2194**	**0.0000**	**0.2019**	**0.2019**	**0.0000**	**1,244.3513**	**1,244.3513**	**0.4025**		**1,254.4125**

3.3 Site Preparation - 2026

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	lb/day										lb/day					
Hauling	5.4500e-003	0.3219	0.0384	4.8000e-004	7.5000e-004	6.0000e-005	8.0000e-004	2.1000e-004	5.0000e-005	2.7000e-004		51.3673	51.3673	9.1100e-003		51.5949
Vendor	4.1700e-003	0.2138	0.0395	2.6000e-004	8.1000e-004	4.0000e-005	8.4000e-004	2.4000e-004	3.0000e-005	2.8000e-004		27.8663	27.8663	4.8000e-003		27.9864
Worker	0.0285	7.1900e-003	0.1160	1.1000e-004	6.1700e-003	2.6000e-004	6.4300e-003	1.6900e-003	2.4000e-004	1.9200e-003		11.0953	11.0953	5.4000e-004		11.1090
Total	**0.0381**	**0.5429**	**0.1939**	**8.5000e-004**	**7.7300e-003**	**3.6000e-004**	**8.0700e-003**	**2.1400e-003**	**3.2000e-004**	**2.4700e-003**		**90.3289**	**90.3289**	**0.0145**		**90.6903**

3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					1.7044	0.0000	1.7044	0.1840	0.0000	0.1840			0.0000			0.0000
Off-Road	1.1905	12.2482	12.7536	0.0273		0.4632	0.4632		0.4261	0.4261		2,638.9908	2,638.9908	0.8535		2,660.3283
Total	**1.1905**	**12.2482**	**12.7536**	**0.0273**	**1.7044**	**0.4632**	**2.1675**	**0.1840**	**0.4261**	**0.6101**		**2,638.9908**	**2,638.9908**	**0.8535**		**2,660.3283**

3.4 Grading - 2026

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	lb/day										lb/day					
Hauling	0.0253	1.4946	0.1782	2.2500e-003	3.4800e-003	2.6000e-004	3.7400e-003	9.9000e-004	2.5000e-004	1.2400e-003		238.4909	238.4909	0.0423		239.5479
Vendor	4.1700e-003	0.2138	0.0395	2.6000e-004	8.1000e-004	4.0000e-005	8.4000e-004	2.4000e-004	3.0000e-005	2.8000e-004		27.8663	27.8663	4.8000e-003		27.9864
Worker	0.0199	5.0400e-003	0.0812	8.0000e-005	4.3200e-003	1.8000e-004	4.5000e-003	1.1800e-003	1.7000e-004	1.3500e-003		7.7667	7.7667	3.8000e-004		7.7763
Total	**0.0494**	**1.7134**	**0.2988**	**2.5900e-003**	**8.6100e-003**	**4.8000e-004**	**9.0800e-003**	**2.4100e-003**	**4.5000e-004**	**2.8700e-003**		**274.1239**	**274.1239**	**0.0475**		**275.3106**

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	lb/day										lb/day					
Fugitive Dust					0.6647	0.0000	0.6647	0.0718	0.0000	0.0718			0.0000			0.0000
Off-Road	1.1905	12.2482	12.7536	0.0273		0.4632	0.4632		0.4261	0.4261	0.0000	2,638.9908	2,638.9908	0.8535		2,660.3283
Total	**1.1905**	**12.2482**	**12.7536**	**0.0273**	**0.6647**	**0.4632**	**1.1279**	**0.0718**	**0.4261**	**0.4979**	**0.0000**	**2,638.9908**	**2,638.9908**	**0.8535**		**2,660.3283**

3.4 Grading - 2026

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	lb/day										lb/day					
Hauling	0.0253	1.4946	0.1782	2.2500e-003	3.4800e-003	2.6000e-004	3.7400e-003	9.9000e-004	2.5000e-004	1.2400e-003		238.4909	238.4909	0.0423		239.5479
Vendor	4.1700e-003	0.2138	0.0395	2.6000e-004	8.1000e-004	4.0000e-005	8.4000e-004	2.4000e-004	3.0000e-005	2.8000e-004		27.8663	27.8663	4.8000e-003		27.9864
Worker	0.0199	5.0400e-003	0.0812	8.0000e-005	4.3200e-003	1.8000e-004	4.5000e-003	1.1800e-003	1.7000e-004	1.3500e-003		7.7667	7.7667	3.8000e-004		7.7763
Total	**0.0494**	**1.7134**	**0.2988**	**2.5900e-003**	**8.6100e-003**	**4.8000e-004**	**9.0800e-003**	**2.4100e-003**	**4.5000e-004**	**2.8700e-003**		**274.1239**	**274.1239**	**0.0475**		**275.3106**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986		4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**		**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2026

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	lb/day										lb/day					
Hauling	8.7000e-004	0.0515	6.1400e-003	8.0000e-005	3.7000e-004	1.0000e-005	3.8000e-004	1.0000e-004	1.0000e-005	1.0000e-004		8.2188	8.2188	1.4600e-003		8.2552
Vendor	0.0459	2.3515	0.4344	2.9000e-003	8.8800e-003	3.9000e-004	9.2700e-003	2.6800e-003	3.7000e-004	3.0400e-003		306.5292	306.5292	0.0529		307.8506
Worker	0.1424	0.0360	0.5800	5.6000e-004	0.0308	1.2900e-003	0.0321	8.4400e-003	1.1800e-003	9.6200e-003		55.4767	55.4767	2.7200e-003		55.5448
Total	**0.1892**	**2.4390**	**1.0205**	**3.5400e-003**	**0.0401**	**1.6900e-003**	**0.0418**	**0.0112**	**1.5600e-003**	**0.0128**		**370.2247**	**370.2247**	**0.0570**		**371.6505**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986	0.0000	4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**	**0.0000**	**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2026

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	lb/day										lb/day					
Hauling	8.7000e-004	0.0515	6.1400e-003	8.0000e-005	3.7000e-004	1.0000e-005	3.8000e-004	1.0000e-004	1.0000e-005	1.0000e-004		8.2188	8.2188	1.4600e-003		8.2552
Vendor	0.0459	2.3515	0.4344	2.9000e-003	8.8800e-003	3.9000e-004	9.2700e-003	2.6800e-003	3.7000e-004	3.0400e-003		306.5292	306.5292	0.0529		307.8506
Worker	0.1424	0.0360	0.5800	5.6000e-004	0.0308	1.2900e-003	0.0321	8.4400e-003	1.1800e-003	9.6200e-003		55.4767	55.4767	2.7200e-003		55.5448
Total	**0.1892**	**2.4390**	**1.0205**	**3.5400e-003**	**0.0401**	**1.6900e-003**	**0.0418**	**0.0112**	**1.5600e-003**	**0.0128**		**370.2247**	**370.2247**	**0.0570**		**371.6505**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986		4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**		**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2027

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	lb/day										lb/day					
Hauling	8.6000e-004	0.0512	6.1600e-003	8.0000e-005	1.9000e-004	1.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	6.0000e-005		8.1378	8.1378	1.4100e-003		8.1730
Vendor	0.0449	2.3411	0.4230	2.8700e-003	8.8800e-003	3.7000e-004	9.2500e-003	2.6800e-003	3.5000e-004	3.0200e-003		303.6771	303.6771	0.0511		304.9534
Worker	0.1324	0.0325	0.5354	5.4000e-004	0.0308	1.2400e-003	0.0321	8.4400e-003	1.1400e-003	9.5800e-003		53.6272	53.6272	2.4500e-003		53.6883
Total	**0.1782**	**2.4248**	**0.9646**	**3.4900e-003**	**0.0399**	**1.6200e-003**	**0.0415**	**0.0112**	**1.5000e-003**	**0.0127**		**365.4420**	**365.4420**	**0.0549**		**366.8147**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986	0.0000	4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**	**0.0000**	**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2027

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	lb/day										lb/day					
Hauling	8.6000e-004	0.0512	6.1600e-003	8.0000e-005	1.9000e-004	1.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	6.0000e-005		8.1378	8.1378	1.4100e-003		8.1730
Vendor	0.0449	2.3411	0.4230	2.8700e-003	8.8800e-003	3.7000e-004	9.2500e-003	2.6800e-003	3.5000e-004	3.0200e-003		303.6771	303.6771	0.0511		304.9534
Worker	0.1324	0.0325	0.5354	5.4000e-004	0.0308	1.2400e-003	0.0321	8.4400e-003	1.1400e-003	9.5800e-003		53.6272	53.6272	2.4500e-003		53.6883
Total	**0.1782**	**2.4248**	**0.9646**	**3.4900e-003**	**0.0399**	**1.6200e-003**	**0.0415**	**0.0112**	**1.5000e-003**	**0.0127**		**365.4420**	**365.4420**	**0.0549**		**366.8147**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986		4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**		**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2028

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	lb/day										lb/day					
Hauling	8.6000e-004	0.0510	6.1900e-003	8.0000e-005	3.8000e-004	1.0000e-005	3.9000e-004	1.0000e-004	1.0000e-005	1.1000e-004		8.0685	8.0685	1.3600e-003		8.1025
Vendor	0.0441	2.3298	0.4147	2.8500e-003	8.8800e-003	3.5000e-004	9.2300e-003	2.6800e-003	3.3000e-004	3.0100e-003		301.2263	301.2263	0.0493		302.4578
Worker	0.1232	0.0294	0.4965	5.3000e-004	0.0308	1.1700e-003	0.0320	8.4400e-003	1.0800e-003	9.5100e-003		51.9833	51.9833	2.2100e-003		52.0385
Total	**0.1681**	**2.4102**	**0.9174**	**3.4600e-003**	**0.0401**	**1.5300e-003**	**0.0416**	**0.0112**	**1.4200e-003**	**0.0126**		**361.2782**	**361.2782**	**0.0528**		**362.5987**

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	lb/day										lb/day					
Off-Road	2.5014	20.2385	26.6980	0.0445		0.7297	0.7297		0.6986	0.6986	0.0000	4,049.8525	4,049.8525	0.8470		4,071.0275
Total	**2.5014**	**20.2385**	**26.6980**	**0.0445**		**0.7297**	**0.7297**		**0.6986**	**0.6986**	**0.0000**	**4,049.8525**	**4,049.8525**	**0.8470**		**4,071.0275**

3.5 Building Construction - 2028

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	lb/day										lb/day					
Hauling	8.6000e-004	0.0510	6.1900e-003	8.0000e-005	3.8000e-004	1.0000e-005	3.9000e-004	1.0000e-004	1.0000e-005	1.1000e-004		8.0685	8.0685	1.3600e-003		8.1025
Vendor	0.0441	2.3298	0.4147	2.8500e-003	8.8800e-003	3.5000e-004	9.2300e-003	2.6800e-003	3.3000e-004	3.0100e-003		301.2263	301.2263	0.0493		302.4578
Worker	0.1232	0.0294	0.4965	5.3000e-004	0.0308	1.1700e-003	0.0320	8.4400e-003	1.0800e-003	9.5100e-003		51.9833	51.9833	2.2100e-003		52.0385
Total	**0.1681**	**2.4102**	**0.9174**	**3.4600e-003**	**0.0401**	**1.5300e-003**	**0.0416**	**0.0112**	**1.4200e-003**	**0.0126**		**361.2782**	**361.2782**	**0.0528**		**362.5987**

3.6 Trenching - 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	lb/day										lb/day					
Off-Road	0.5683	5.3349	9.5654	0.0140		0.2407	0.2407		0.2214	0.2214		1,358.5115	1,358.5115	0.4394		1,369.4958
Total	**0.5683**	**5.3349**	**9.5654**	**0.0140**		**0.2407**	**0.2407**		**0.2214**	**0.2214**		**1,358.5115**	**1,358.5115**	**0.4394**		**1,369.4958**

3.6 Trenching - 2028

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	lb/day										lb/day					
Hauling	9.2000e-004	0.0547	6.6300e-003	8.0000e-005	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	4.0000e-005		8.6448	8.6448	1.4500e-003		8.6812
Vendor	4.0100e-003	0.2118	0.0377	2.6000e-004	8.1000e-004	3.0000e-005	8.4000e-004	2.4000e-004	3.0000e-005	2.7000e-004		27.3842	27.3842	4.4800e-003		27.4962
Worker	0.0370	8.8200e-003	0.1490	1.6000e-004	9.2500e-003	3.5000e-004	9.6000e-003	2.5300e-003	3.2000e-004	2.8500e-003		15.5950	15.5950	6.6000e-004		15.6116
Total	**0.0419**	**0.2753**	**0.1933**	**5.0000e-004**	**0.0102**	**3.9000e-004**	**0.0106**	**2.8100e-003**	**3.6000e-004**	**3.1600e-003**		**51.6240**	**51.6240**	**6.5900e-003**		**51.7889**

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	lb/day										lb/day					
Off-Road	0.5683	5.3349	9.5654	0.0140		0.2407	0.2407		0.2214	0.2214	0.0000	1,358.5115	1,358.5115	0.4394		1,369.4958
Total	**0.5683**	**5.3349**	**9.5654**	**0.0140**		**0.2407**	**0.2407**		**0.2214**	**0.2214**	**0.0000**	**1,358.5115**	**1,358.5115**	**0.4394**		**1,369.4958**

3.6 Trenching - 2028

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	lb/day										lb/day					
Hauling	9.2000e-004	0.0547	6.6300e-003	8.0000e-005	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	4.0000e-005		8.6448	8.6448	1.4500e-003		8.6812
Vendor	4.0100e-003	0.2118	0.0377	2.6000e-004	8.1000e-004	3.0000e-005	8.4000e-004	2.4000e-004	3.0000e-005	2.7000e-004		27.3842	27.3842	4.4800e-003		27.4962
Worker	0.0370	8.8200e-003	0.1490	1.6000e-004	9.2500e-003	3.5000e-004	9.6000e-003	2.5300e-003	3.2000e-004	2.8500e-003		15.5950	15.5950	6.6000e-004		15.6116
Total	**0.0419**	**0.2753**	**0.1933**	**5.0000e-004**	**0.0102**	**3.9000e-004**	**0.0106**	**2.8100e-003**	**3.6000e-004**	**3.1600e-003**		**51.6240**	**51.6240**	**6.5900e-003**		**51.7889**

3.7 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	lb/day										lb/day					
Off-Road	0.4576	4.2908	7.2890	0.0114		0.2093	0.2093		0.1925	0.1925		1,103.3726	1,103.3726	0.3569		1,112.2939
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4576**	**4.2908**	**7.2890**	**0.0114**		**0.2093**	**0.2093**		**0.1925**	**0.1925**		**1,103.3726**	**1,103.3726**	**0.3569**		**1,112.2939**

3.7 Paving - 2028

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	lb/day										lb/day					
Hauling	0.0134	0.7971	0.0967	1.1900e-003	0.0257	1.3000e-004	0.0259	6.3900e-003	1.2000e-004	6.5100e-003		126.0704	126.0704	0.0212		126.6008
Vendor	2.0000e-003	0.1059	0.0189	1.3000e-004	4.0000e-004	2.0000e-005	4.2000e-004	1.2000e-004	2.0000e-005	1.4000e-004		13.6921	13.6921	2.2400e-003		13.7481
Worker	9.8500e-003	2.3500e-003	0.0397	4.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	9.0000e-005	7.6000e-004		4.1587	4.1587	1.8000e-004		4.1631
Total	**0.0252**	**0.9053**	**0.1553**	**1.3600e-003**	**0.0286**	**2.4000e-004**	**0.0288**	**7.1800e-003**	**2.3000e-004**	**7.4100e-003**		**143.9212**	**143.9212**	**0.0236**		**144.5120**

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	lb/day										lb/day					
Off-Road	0.4576	4.2908	7.2890	0.0114		0.2093	0.2093		0.1925	0.1925	0.0000	1,103.3726	1,103.3726	0.3569		1,112.2939
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4576**	**4.2908**	**7.2890**	**0.0114**		**0.2093**	**0.2093**		**0.1925**	**0.1925**	**0.0000**	**1,103.3726**	**1,103.3726**	**0.3569**		**1,112.2939**

3.7 Paving - 2028

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	lb/day										lb/day					
Hauling	0.0134	0.7971	0.0967	1.1900e-003	0.0257	1.3000e-004	0.0259	6.3900e-003	1.2000e-004	6.5100e-003		126.0704	126.0704	0.0212		126.6008
Vendor	2.0000e-003	0.1059	0.0189	1.3000e-004	4.0000e-004	2.0000e-005	4.2000e-004	1.2000e-004	2.0000e-005	1.4000e-004		13.6921	13.6921	2.2400e-003		13.7481
Worker	9.8500e-003	2.3500e-003	0.0397	4.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	9.0000e-005	7.6000e-004		4.1587	4.1587	1.8000e-004		4.1631
Total	**0.0252**	**0.9053**	**0.1553**	**1.3600e-003**	**0.0286**	**2.4000e-004**	**0.0288**	**7.1800e-003**	**2.3000e-004**	**7.4100e-003**		**143.9212**	**143.9212**	**0.0236**		**144.5120**

3.7 Paving - 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	lb/day										lb/day					
Off-Road	0.4576	4.2908	7.2890	0.0114		0.2093	0.2093		0.1925	0.1925		1,103.3726	1,103.3726	0.3569		1,112.2939
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4576**	**4.2908**	**7.2890**	**0.0114**		**0.2093**	**0.2093**		**0.1925**	**0.1925**		**1,103.3726**	**1,103.3726**	**0.3569**		**1,112.2939**

3.7 Paving - 2029

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	lb/day										lb/day					
Hauling	0.0133	0.7937	0.0972	1.1800e-003	1.9400e-003	1.2000e-004	2.0500e-003	5.5000e-004	1.1000e-004	6.6000e-004		125.1042	125.1042	0.0205		125.6166
Vendor	1.9700e-003	0.1054	0.0185	1.3000e-004	4.0000e-004	2.0000e-005	4.2000e-004	1.2000e-004	1.0000e-005	1.4000e-004		13.5927	13.5927	2.1600e-003		13.6468
Worker	9.1200e-003	2.1300e-003	0.0368	4.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	8.0000e-005	7.6000e-004		4.0417	4.0417	1.6000e-004		4.0457
Total	**0.0244**	**0.9013**	**0.1526**	**1.3500e-003**	**4.8100e-003**	**2.3000e-004**	**5.0300e-003**	**1.3400e-003**	**2.0000e-004**	**1.5600e-003**		**142.7386**	**142.7386**	**0.0228**		**143.3090**

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	lb/day										lb/day					
Off-Road	0.4576	4.2908	7.2890	0.0114		0.2093	0.2093		0.1925	0.1925	0.0000	1,103.3726	1,103.3726	0.3569		1,112.2939
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4576**	**4.2908**	**7.2890**	**0.0114**		**0.2093**	**0.2093**		**0.1925**	**0.1925**	**0.0000**	**1,103.3726**	**1,103.3726**	**0.3569**		**1,112.2939**

3.7 Paving - 2029

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	lb/day										lb/day					
Hauling	0.0133	0.7937	0.0972	1.1800e-003	1.9400e-003	1.2000e-004	2.0500e-003	5.5000e-004	1.1000e-004	6.6000e-004		125.1042	125.1042	0.0205		125.6166
Vendor	1.9700e-003	0.1054	0.0185	1.3000e-004	4.0000e-004	2.0000e-005	4.2000e-004	1.2000e-004	1.0000e-005	1.4000e-004		13.5927	13.5927	2.1600e-003		13.6468
Worker	9.1200e-003	2.1300e-003	0.0368	4.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	8.0000e-005	7.6000e-004		4.0417	4.0417	1.6000e-004		4.0457
Total	**0.0244**	**0.9013**	**0.1526**	**1.3500e-003**	**4.8100e-003**	**2.3000e-004**	**5.0300e-003**	**1.3400e-003**	**2.0000e-004**	**1.5600e-003**		**142.7386**	**142.7386**	**0.0228**		**143.3090**

3.8 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	32.8555					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	**33.1973**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.6637**

3.8 Architectural Coating - 2029

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	lb/day										lb/day					
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
Vendor	1.9700e-003	0.1054	0.0185	1.3000e-004	4.0000e-004	2.0000e-005	4.2000e-004	1.2000e-004	1.0000e-005	1.4000e-004		13.5927	13.5927	2.1600e-003		13.6468
Worker	0.0160	3.7300e-003	0.0644	7.0000e-005	4.3200e-003	1.5000e-004	4.4700e-003	1.1800e-003	1.4000e-004	1.3200e-003		7.0729	7.0729	2.8000e-004		7.0799
Total	**0.0179**	**0.1092**	**0.0829**	**2.0000e-004**	**4.7200e-003**	**1.7000e-004**	**4.8900e-003**	**1.3000e-003**	**1.5000e-004**	**1.4600e-003**		**20.6656**	**20.6656**	**2.4400e-003**		**20.7267**

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	lb/day										lb/day					
Archit. Coating	32.8555					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637
Total	**33.1973**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.6637**

3.8 Architectural Coating - 2029

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	lb/day										lb/day					
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
Vendor	1.9700e-003	0.1054	0.0185	1.3000e-004	4.0000e-004	2.0000e-005	4.2000e-004	1.2000e-004	1.0000e-005	1.4000e-004		13.5927	13.5927	2.1600e-003		13.6468
Worker	0.0160	3.7300e-003	0.0644	7.0000e-005	4.3200e-003	1.5000e-004	4.4700e-003	1.1800e-003	1.4000e-004	1.3200e-003		7.0729	7.0729	2.8000e-004		7.0799
Total	**0.0179**	**0.1092**	**0.0829**	**2.0000e-004**	**4.7200e-003**	**1.7000e-004**	**4.8900e-003**	**1.3000e-003**	**1.5000e-004**	**1.4600e-003**		**20.6656**	**20.6656**	**2.4400e-003**		**20.7267**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Limit Parking Supply

Implement Trip Reduction Program

Market Commute Trip Reduction Option

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.0948	39.0940	17.1454	0.0624	0.7467	0.0314	0.7780	0.1996	0.0290	0.2286		6,539.8105	6,539.8105	0.9613		6,563.8432
Unmitigated	4.1047	39.1514	17.4013	0.0641	0.9333	0.0322	0.9655	0.2495	0.0298	0.2793		6,710.8959	6,710.8959	0.9654		6,735.0307

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Light Industry	0.00	0.00	0.00		
Hospital	4,073.60	3,138.80	2747.40	259,391	207,513
Medical Office Building	2,262.00	560.95	96.85	118,242	94,593
Total	6,335.60	3,699.75	2,844.25	377,633	302,107

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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Hospital	0.00	0.19	0.00	0.00	100.00	0.00	100	0	0
Medical Office Building	0.00	0.19	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
General Light Industry	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Hospital	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615
Medical Office Building	0.562310	0.034239	0.191194	0.102231	0.010280	0.004149	0.017053	0.070255	0.001423	0.001071	0.004354	0.000825	0.000615

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.4043	12.7663	10.7237	0.0766		0.9702	0.9702		0.9702	0.9702		15,319.5423	15,319.5423	0.2936	0.2809	15,410.5787
NaturalGas Unmitigated	2.0061	18.2376	15.3195	0.1094		1.3861	1.3861		1.3861	1.3861		21,885.0604	21,885.0604	0.4195	0.4012	22,015.1124

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	lb/day										lb/day					
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
General Light Industry	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
Hospital	186023	2.0061	18.2376	15.3195	0.1094		1.3861	1.3861		1.3861	1.3861		21,885.0604	21,885.0604	0.4195	0.4012	22,015.1124
Medical Office Building	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
Total		**2.0061**	**18.2376**	**15.3195**	**0.1094**		**1.3861**	**1.3861**		**1.3861**	**1.3861**		**21,885.0604**	**21,885.0604**	**0.4195**	**0.4012**	**22,015.1124**

5.2 Energy by Land Use - NaturalGas

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	lb/day										lb/day					
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
General Light Industry	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
Hospital	130.216	1.4043	12.7663	10.7237	0.0766		0.9702	0.9702		0.9702	0.9702		15,319.5423	15,319.5423	0.2936	0.2809	15,410.5787
Medical Office Building	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
Total		**1.4043**	**12.7663**	**10.7237**	**0.0766**		**0.9702**	**0.9702**		**0.9702**	**0.9702**		**15,319.5423**	**15,319.5423**	**0.2936**	**0.2809**	**15,410.5787**

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	lb/day										lb/day					
Mitigated	9.8755	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249
Unmitigated	9.8755	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249

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	lb/day										lb/day					
Architectural Coating	0.6301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.2244					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0209	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249
Total	**9.8755**	**2.0600e-003**	**0.2289**	**2.0000e-005**		**8.1000e-004**	**8.1000e-004**		**8.1000e-004**	**8.1000e-004**		**0.4931**	**0.4931**	**1.2700e-003**		**0.5249**

6.2 Area by SubCategory

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	lb/day										lb/day					
Architectural Coating	0.6301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.2244					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0209	2.0600e-003	0.2289	2.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004		0.4931	0.4931	1.2700e-003		0.5249
Total	**9.8755**	**2.0600e-003**	**0.2289**	**2.0000e-005**		**8.1000e-004**	**8.1000e-004**		**8.1000e-004**	**8.1000e-004**		**0.4931**	**0.4931**	**1.2700e-003**		**0.5249**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Kaiser Moreno Valley - Phase III LST

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	375.00	1000sqft	8.61	375,000.00	0
Medical Office Building	95.00	1000sqft	2.18	95,000.00	0
Enclosed Parking with Elevator	600.00	Space	5.40	240,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2035
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	238.86	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - In accordance with SB 100 goal of 100% renewable by 2045.

Land Use - Based on project description.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.
Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - Based on applicant provided information. Grading is balanced onsite.

On-road Fugitive Dust - CalEEMod defaults.

Grading - CalEEMod defaults.

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Based on trip gen for Phase III.

Road Dust - CalEEMod defaults.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults for electricity. Natural gas based on applicant provided information.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - water 3x daily and vehicle speed limit of 15 mph on unpaved roads.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation - All LED lighting. Compliance with 2019 Title 24.

Water Mitigation -

Waste Mitigation - In accordance with AB 939.

Kaiser Moreno Valley - Phase III LST - Riverside-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstructionPhase	NumDays	300.00	500.00
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	30.00	50.00
tblConstructionPhase	NumDays	10.00	50.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	4.52	0.00
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	5.56	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24NG	6.03	0.00
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	8.35	8.69
tblEnergyUse	T24E	3.07	0.00
tblEnergyUse	T24NG	69.49	133.87
tblEnergyUse	T24NG	3.47	0.00
tblGrading	AcresOfGrading	50.00	75.00

tblGrading	AcresOfGrading	25.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	238.86
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripNumber	0.00	2,000.00

tblTripsAndVMT	HaulingTripNumber	0.00	120.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,300.00
tblTripsAndVMT	HaulingTripNumber	0.00	280.00
tblTripsAndVMT	HaulingTripNumber	0.00	96.00
tblTripsAndVMT	HaulingTripNumber	0.00	200.00
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	116.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripNumber	25.00	80.00

tblTripsAndVMT	WorkerTripNumber	8.00	40.00
tblTripsAndVMT	WorkerTripNumber	15.00	30.00
tblTripsAndVMT	WorkerTripNumber	251.00	350.00
tblTripsAndVMT	WorkerTripNumber	10.00	60.00
tblTripsAndVMT	WorkerTripNumber	8.00	24.00
tblTripsAndVMT	WorkerTripNumber	50.00	30.00
tblVehicleTrips	CC_TL	8.40	0.19
tblVehicleTrips	CC_TL	8.40	0.19
tblVehicleTrips	CC_TTP	16.10	100.00
tblVehicleTrips	CC_TTP	51.40	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	64.90	0.00
tblVehicleTrips	CW_TTP	29.60	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	DV_TP	30.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	10.00	0.00
tblVehicleTrips	PR_TP	73.00	100.00
tblVehicleTrips	PR_TP	60.00	100.00
tblVehicleTrips	ST_TR	10.18	5.39
tblVehicleTrips	ST_TR	8.96	8.63
tblVehicleTrips	SU_TR	8.91	4.72

tblVehicleTrips	SU_TR	1.55	1.49
tblVehicleTrips	WD_TR	13.22	7.00
tblVehicleTrips	WD_TR	36.13	34.80

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2032	2.8572	14.9058	21.9260	0.0723	1.6011	0.3546	1.7734	0.1747	0.3546	0.3600	0.0000	6,899.8057	6,899.8057	0.3002	0.0000	6,907.3107
2033	1.9386	12.7975	21.8847	0.0441	0.0622	0.2068	0.2690	0.0172	0.2066	0.2239	0.0000	4,075.7948	4,075.7948	0.1883	0.0000	4,080.5014
2034	56.4091	12.7886	21.8462	0.0441	0.0623	0.2067	0.2690	0.0173	0.2065	0.2238	0.0000	4,074.7422	4,074.7422	0.1873	0.0000	4,079.4246
2035	56.3821	1.6236	3.6439	6.1500e-003	5.0300e-003	0.0199	0.0250	1.3900e-003	0.0199	0.0213	0.0000	585.3698	585.3698	0.0226	0.0000	585.9342
Maximum	**56.4091**	**14.9058**	**21.9260**	**0.0723**	**1.6011**	**0.3546**	**1.7734**	**0.1747**	**0.3546**	**0.3600**	**0.0000**	**6,899.8057**	**6,899.8057**	**0.3002**	**0.0000**	**6,907.3107**

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2032	0.7661	8.3895	28.8837	0.0723	0.6307	0.0904	0.6808	0.0699	0.0904	0.1200	0.0000	6,899.8057	6,899.8057	0.3002	0.0000	6,907.3107
2033	0.7352	8.3794	23.8047	0.0441	0.0622	0.0535	0.1157	0.0172	0.0534	0.0706	0.0000	4,075.7948	4,075.7948	0.1883	0.0000	4,080.5014
2034	56.2070	8.3706	23.7662	0.0441	0.0623	0.0534	0.1157	0.0173	0.0533	0.0705	0.0000	4,074.7422	4,074.7422	0.1873	0.0000	4,079.4246
2035	56.2058	0.3657	3.7202	6.1500e-003	5.0300e-003	8.0500e-003	0.0131	1.3900e-003	8.0400e-003	9.4200e-003	0.0000	585.3698	585.3698	0.0226	0.0000	585.9342
Maximum	**56.2070**	**8.3895**	**28.8837**	**0.0723**	**0.6307**	**0.0904**	**0.6808**	**0.0699**	**0.0904**	**0.1200**	**0.0000**	**6,899.8057**	**6,899.8057**	**0.3002**	**0.0000**	**6,907.3107**

	ROG	NOx	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	**3.12**	**39.44**	**-15.69**	**0.00**	**56.07**	**73.94**	**60.39**	**49.76**	**73.97**	**67.36**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	lb/day										lb/day					
Area	10.0161	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493
Energy	1.4833	13.4841	11.3266	0.0809		1.0248	1.0248		1.0248	1.0248		16,180.9025	16,180.9025	0.3101	0.2967	16,277.0575
Mobile	3.9157	36.9232	11.6071	0.0661	0.8733	0.0220	0.8953	0.2334	0.0203	0.2537		6,938.3415	6,938.3415	0.6933		6,955.6740
Total	**15.4150**	**50.4082**	**23.0423**	**0.1470**	**0.8733**	**1.0471**	**1.9204**	**0.2334**	**1.0455**	**1.2789**		**23,119.4782**	**23,119.4782**	**1.0040**	**0.2967**	**23,232.9808**

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	lb/day										lb/day					
Area	10.0161	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493
Energy	1.0383	9.4389	7.9286	0.0566		0.7174	0.7174		0.7174	0.7174		11,326.6318	11,326.6318	0.2171	0.2077	11,393.9403
Mobile	3.9068	36.8807	11.3516	0.0645	0.6986	0.0213	0.7200	0.1867	0.0197	0.2065		6,776.6593	6,776.6593	0.6897		6,793.9011
Total	**14.9611**	**46.3206**	**19.3889**	**0.1211**	**0.6986**	**0.7391**	**1.4377**	**0.1867**	**0.7375**	**0.9242**		**18,103.5252**	**18,103.5252**	**0.9074**	**0.2077**	**18,188.0906**

	ROG	NOx	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	**2.94**	**8.11**	**15.86**	**17.59**	**20.00**	**29.42**	**25.14**	**20.00**	**29.46**	**27.73**	**0.00**	**21.70**	**21.70**	**9.63**	**30.00**	**21.71**

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	1/1/2032	3/24/2032	5	60	
2	Site Preparation	Site Preparation	3/25/2032	6/2/2032	5	50	
3	Grading	Grading	6/3/2032	8/11/2032	5	50	
4	Building Construction	Building Construction	8/12/2032	7/12/2034	5	500	
5	Trenching	Trenching	7/13/2034	11/15/2034	5	90	
6	Paving	Paving	11/16/2034	12/13/2034	5	20	
7	Architectural Coating	Architectural Coating	12/14/2034	2/7/2035	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 5.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 705,000; Non-Residential Outdoor: 235,000; Striped Parking Area: 14,400 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crawler Tractors	3	8.00	212	0.43
Demolition	Excavators	0	8.00	158	0.38

Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	3	8.00	203	0.36
Demolition	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Other Construction Equipment	1	8.00	172	0.42
Building Construction	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	4	8.00	46	0.45
Trenching	Excavators	1	8.00	158	0.38
Trenching	Rollers	1	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38

Architectural Coating	Air Compressors	2	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	10	80.00	4.00	2,000.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	40.00	4.00	120.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Grading	6	30.00	4.00	1,300.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Building Construction	10	350.00	40.00	280.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Trenching	4	60.00	4.00	96.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Paving	3	24.00	2.00	200.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	30.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 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	lb/day										lb/day					
Off-Road	2.7644	11.9696	19.6031	0.0673		0.3540	0.3540		0.3540	0.3540		6,377.4845	6,377.4845	0.2413		6,383.5171
Total	**2.7644**	**11.9696**	**19.6031**	**0.0673**		**0.3540**	**0.3540**		**0.3540**	**0.3540**		**6,377.4845**	**6,377.4845**	**0.2413**		**6,383.5171**

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	lb/day										lb/day					
Hauling	0.0388	2.7148	0.2335	4.4400e-003	6.2400e-003	2.7000e-004	6.5000e-003	1.7700e-003	2.5000e-004	2.0200e-003		471.6816	471.6816	0.0549		473.0536
Vendor	3.4900e-003	0.2139	0.0283	2.9000e-004	8.1000e-004	2.0000e-005	8.3000e-004	2.4000e-004	2.0000e-005	2.6000e-004		30.5480	30.5480	3.4900e-003		30.6352
Worker	0.0505	7.5800e-003	0.1354	2.0000e-004	0.0123	3.7000e-004	0.0127	3.3700e-003	3.4000e-004	3.7100e-003		20.0917	20.0917	5.2000e-004		20.1047
Total	**0.0928**	**2.9362**	**0.3972**	**4.9300e-003**	**0.0194**	**6.6000e-004**	**0.0200**	**5.3800e-003**	**6.1000e-004**	**5.9900e-003**		**522.3212**	**522.3212**	**0.0589**		**523.7936**

3.2 Demolition - 2032

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	lb/day										lb/day					
Off-Road	0.6733	2.9177	28.4865	0.0673		0.0898	0.0898		0.0898	0.0898	0.0000	6,377.4845	6,377.4845	0.2413		6,383.5171
Total	**0.6733**	**2.9177**	**28.4865**	**0.0673**		**0.0898**	**0.0898**		**0.0898**	**0.0898**	**0.0000**	**6,377.4845**	**6,377.4845**	**0.2413**		**6,383.5171**

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	lb/day										lb/day					
Hauling	0.0388	2.7148	0.2335	4.4400e-003	6.2400e-003	2.7000e-004	6.5000e-003	1.7700e-003	2.5000e-004	2.0200e-003		471.6816	471.6816	0.0549		473.0536
Vendor	3.4900e-003	0.2139	0.0283	2.9000e-004	8.1000e-004	2.0000e-005	8.3000e-004	2.4000e-004	2.0000e-005	2.6000e-004		30.5480	30.5480	3.4900e-003		30.6352
Worker	0.0505	7.5800e-003	0.1354	2.0000e-004	0.0123	3.7000e-004	0.0127	3.3700e-003	3.4000e-004	3.7100e-003		20.0917	20.0917	5.2000e-004		20.1047
Total	**0.0928**	**2.9362**	**0.3972**	**4.9300e-003**	**0.0194**	**6.6000e-004**	**0.0200**	**5.3800e-003**	**6.1000e-004**	**5.9900e-003**		**522.3212**	**522.3212**	**0.0589**		**523.7936**

3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6364	2.9809	6.2428	0.0157		0.0704	0.0704		0.0704	0.0704		1,487.9260	1,487.9260	0.0561		1,489.3279
Total	**0.6364**	**2.9809**	**6.2428**	**0.0157**	**0.0000**	**0.0704**	**0.0704**	**0.0000**	**0.0704**	**0.0704**		**1,487.9260**	**1,487.9260**	**0.0561**		**1,489.3279**

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	lb/day										lb/day					
Hauling	2.7900e-003	0.1955	0.0168	3.2000e-004	4.5000e-004	2.0000e-005	4.7000e-004	1.3000e-004	2.0000e-005	1.5000e-004		33.9611	33.9611	3.9500e-003		34.0599
Vendor	3.4900e-003	0.2139	0.0283	2.9000e-004	8.1000e-004	2.0000e-005	8.3000e-004	2.4000e-004	2.0000e-005	2.6000e-004		30.5480	30.5480	3.4900e-003		30.6352
Worker	0.0253	3.7900e-003	0.0677	1.0000e-004	6.1700e-003	1.8000e-004	6.3500e-003	1.6900e-003	1.7000e-004	1.8600e-003		10.0458	10.0458	2.6000e-004		10.0524
Total	**0.0315**	**0.4131**	**0.1128**	**7.1000e-004**	**7.4300e-003**	**2.2000e-004**	**7.6500e-003**	**2.0600e-003**	**2.1000e-004**	**2.2700e-003**		**74.5549**	**74.5549**	**7.7000e-003**		**74.7475**

3.3 Site Preparation - 2032

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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1571	0.6807	7.6590	0.0157		0.0210	0.0210		0.0210	0.0210	0.0000	1,487.9260	1,487.9260	0.0561		1,489.3279
Total	**0.1571**	**0.6807**	**7.6590**	**0.0157**	**0.0000**	**0.0210**	**0.0210**	**0.0000**	**0.0210**	**0.0210**	**0.0000**	**1,487.9260**	**1,487.9260**	**0.0561**		**1,489.3279**

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	lb/day										lb/day					
Hauling	2.7900e-003	0.1955	0.0168	3.2000e-004	4.5000e-004	2.0000e-005	4.7000e-004	1.3000e-004	2.0000e-005	1.5000e-004		33.9611	33.9611	3.9500e-003		34.0599
Vendor	3.4900e-003	0.2139	0.0283	2.9000e-004	8.1000e-004	2.0000e-005	8.3000e-004	2.4000e-004	2.0000e-005	2.6000e-004		30.5480	30.5480	3.4900e-003		30.6352
Worker	0.0253	3.7900e-003	0.0677	1.0000e-004	6.1700e-003	1.8000e-004	6.3500e-003	1.6900e-003	1.7000e-004	1.8600e-003		10.0458	10.0458	2.6000e-004		10.0524
Total	**0.0315**	**0.4131**	**0.1128**	**7.1000e-004**	**7.4300e-003**	**2.2000e-004**	**7.6500e-003**	**2.0600e-003**	**2.1000e-004**	**2.2700e-003**		**74.5549**	**74.5549**	**7.7000e-003**		**74.7475**

3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.4129	5.3235	12.4279	0.0373		0.1720	0.1720		0.1720	0.1720		3,535.6410	3,535.6410	0.1244		3,538.7503
Total	**1.4129**	**5.3235**	**12.4279**	**0.0373**	**1.5908**	**0.1720**	**1.7627**	**0.1718**	**0.1720**	**0.3438**		**3,535.6410**	**3,535.6410**	**0.1244**		**3,538.7503**

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	lb/day										lb/day					
Hauling	0.0303	2.1175	0.1821	3.4600e-003	4.8600e-003	2.1000e-004	5.0700e-003	1.3800e-003	2.0000e-004	1.5800e-003		367.9116	367.9116	0.0428		368.9818
Vendor	3.4900e-003	0.2139	0.0283	2.9000e-004	8.1000e-004	2.0000e-005	8.3000e-004	2.4000e-004	2.0000e-005	2.6000e-004		30.5480	30.5480	3.4900e-003		30.6352
Worker	0.0189	2.8400e-003	0.0508	8.0000e-005	4.6300e-003	1.4000e-004	4.7600e-003	1.2700e-003	1.3000e-004	1.3900e-003		7.5344	7.5344	2.0000e-004		7.5393
Total	**0.0527**	**2.3342**	**0.2612**	**3.8300e-003**	**0.0103**	**3.7000e-004**	**0.0107**	**2.8900e-003**	**3.5000e-004**	**3.2300e-003**		**405.9940**	**405.9940**	**0.0465**		**407.1563**

3.4 Grading - 2032

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	lb/day										lb/day					
Fugitive Dust					0.6204	0.0000	0.6204	0.0670	0.0000	0.0670			0.0000			0.0000
Off-Road	0.3733	1.6176	17.0293	0.0373		0.0498	0.0498		0.0498	0.0498	0.0000	3,535.6410	3,535.6410	0.1244		3,538.7503
Total	**0.3733**	**1.6176**	**17.0293**	**0.0373**	**0.6204**	**0.0498**	**0.6702**	**0.0670**	**0.0498**	**0.1168**	**0.0000**	**3,535.6410**	**3,535.6410**	**0.1244**		**3,538.7503**

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	lb/day										lb/day					
Hauling	0.0303	2.1175	0.1821	3.4600e-003	4.8600e-003	2.1000e-004	5.0700e-003	1.3800e-003	2.0000e-004	1.5800e-003		367.9116	367.9116	0.0428		368.9818
Vendor	3.4900e-003	0.2139	0.0283	2.9000e-004	8.1000e-004	2.0000e-005	8.3000e-004	2.4000e-004	2.0000e-005	2.6000e-004		30.5480	30.5480	3.4900e-003		30.6352
Worker	0.0189	2.8400e-003	0.0508	8.0000e-005	4.6300e-003	1.4000e-004	4.7600e-003	1.2700e-003	1.3000e-004	1.3900e-003		7.5344	7.5344	2.0000e-004		7.5393
Total	**0.0527**	**2.3342**	**0.2612**	**3.8300e-003**	**0.0103**	**3.7000e-004**	**0.0107**	**2.8900e-003**	**3.5000e-004**	**3.2300e-003**		**405.9940**	**405.9940**	**0.0465**		**407.1563**

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	lb/day										lb/day					
Off-Road	1.6998	10.5903	21.0464	0.0403		0.2050	0.2050		0.2050	0.2050		3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**1.6998**	**10.5903**	**21.0464**	**0.0403**		**0.2050**	**0.2050**		**0.2050**	**0.2050**		**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	6.5000e-004	0.0456	3.9200e-003	7.0000e-005	3.8000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004		7.9243	7.9243	9.2000e-004		7.9473
Vendor	0.0349	2.1385	0.2831	2.8800e-003	8.0700e-003	2.3000e-004	8.3000e-003	2.4300e-003	2.1000e-004	2.6500e-003		305.4797	305.4797	0.0349		306.3522
Worker	0.2209	0.0332	0.5925	8.9000e-004	0.0540	1.6100e-003	0.0556	0.0148	1.4800e-003	0.0162		87.9010	87.9010	2.2900e-003		87.9582
Total	**0.2565**	**2.2173**	**0.8796**	**3.8400e-003**	**0.0624**	**1.8400e-003**	**0.0643**	**0.0173**	**1.6900e-003**	**0.0190**		**401.3049**	**401.3049**	**0.0381**		**402.2577**

3.5 Building Construction - 2032

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	lb/day										lb/day					
Off-Road	0.4964	6.1723	22.9664	0.0403		0.0518	0.0518		0.0518	0.0518	0.0000	3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**0.4964**	**6.1723**	**22.9664**	**0.0403**		**0.0518**	**0.0518**		**0.0518**	**0.0518**	**0.0000**	**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	6.5000e-004	0.0456	3.9200e-003	7.0000e-005	3.8000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004		7.9243	7.9243	9.2000e-004		7.9473
Vendor	0.0349	2.1385	0.2831	2.8800e-003	8.0700e-003	2.3000e-004	8.3000e-003	2.4300e-003	2.1000e-004	2.6500e-003		305.4797	305.4797	0.0349		306.3522
Worker	0.2209	0.0332	0.5925	8.9000e-004	0.0540	1.6100e-003	0.0556	0.0148	1.4800e-003	0.0162		87.9010	87.9010	2.2900e-003		87.9582
Total	**0.2565**	**2.2173**	**0.8796**	**3.8400e-003**	**0.0624**	**1.8400e-003**	**0.0643**	**0.0173**	**1.6900e-003**	**0.0190**		**401.3049**	**401.3049**	**0.0381**		**402.2577**

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	lb/day										lb/day					
Off-Road	1.6998	10.5903	21.0464	0.0403		0.2050	0.2050		0.2050	0.2050		3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**1.6998**	**10.5903**	**21.0464**	**0.0403**		**0.2050**	**0.2050**		**0.2050**	**0.2050**		**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	6.5000e-004	0.0456	3.9800e-003	7.0000e-005	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005		7.9308	7.9308	9.0000e-004		7.9533
Vendor	0.0349	2.1316	0.2825	2.8800e-003	8.0700e-003	2.2000e-004	8.2900e-003	2.4300e-003	2.1000e-004	2.6400e-003		305.6446	305.6446	0.0341		306.4959
Worker	0.2033	0.0300	0.5519	8.7000e-004	0.0540	1.5100e-003	0.0555	0.0148	1.3900e-003	0.0162		86.2553	86.2553	2.0600e-003		86.3067
Total	**0.2388**	**2.2072**	**0.8384**	**3.8200e-003**	**0.0622**	**1.7300e-003**	**0.0639**	**0.0172**	**1.6000e-003**	**0.0188**		**399.8307**	**399.8307**	**0.0370**		**400.7559**

3.5 Building Construction - 2033

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	lb/day										lb/day					
Off-Road	0.4964	6.1723	22.9664	0.0403		0.0518	0.0518		0.0518	0.0518	0.0000	3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**0.4964**	**6.1723**	**22.9664**	**0.0403**		**0.0518**	**0.0518**		**0.0518**	**0.0518**	**0.0000**	**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	6.5000e-004	0.0456	3.9800e-003	7.0000e-005	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005		7.9308	7.9308	9.0000e-004		7.9533
Vendor	0.0349	2.1316	0.2825	2.8800e-003	8.0700e-003	2.2000e-004	8.2900e-003	2.4300e-003	2.1000e-004	2.6400e-003		305.6446	305.6446	0.0341		306.4959
Worker	0.2033	0.0300	0.5519	8.7000e-004	0.0540	1.5100e-003	0.0555	0.0148	1.3900e-003	0.0162		86.2553	86.2553	2.0600e-003		86.3067
Total	**0.2388**	**2.2072**	**0.8384**	**3.8200e-003**	**0.0622**	**1.7300e-003**	**0.0639**	**0.0172**	**1.6000e-003**	**0.0188**		**399.8307**	**399.8307**	**0.0370**		**400.7559**

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	lb/day										lb/day					
Off-Road	1.6998	10.5903	21.0464	0.0403		0.2050	0.2050		0.2050	0.2050		3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**1.6998**	**10.5903**	**21.0464**	**0.0403**		**0.2050**	**0.2050**		**0.2050**	**0.2050**		**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	6.5000e-004	0.0456	4.0400e-003	7.0000e-005	2.9000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005		7.9431	7.9431	8.8000e-004		7.9650
Vendor	0.0348	2.1254	0.2819	2.8900e-003	8.0700e-003	2.1000e-004	8.2900e-003	2.4300e-003	2.0000e-004	2.6300e-003		306.0160	306.0160	0.0333		306.8489
Worker	0.1866	0.0273	0.5139	8.6000e-004	0.0540	1.4200e-003	0.0554	0.0148	1.3000e-003	0.0161		84.8191	84.8191	1.8400e-003		84.8652
Total	**0.2221**	**2.1983**	**0.7999**	**3.8200e-003**	**0.0623**	**1.6300e-003**	**0.0640**	**0.0173**	**1.5000e-003**	**0.0188**		**398.7781**	**398.7781**	**0.0360**		**399.6791**

3.5 Building Construction - 2034

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	lb/day										lb/day					
Off-Road	0.4964	6.1723	22.9664	0.0403		0.0518	0.0518		0.0518	0.0518	0.0000	3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**0.4964**	**6.1723**	**22.9664**	**0.0403**		**0.0518**	**0.0518**		**0.0518**	**0.0518**	**0.0000**	**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	6.5000e-004	0.0456	4.0400e-003	7.0000e-005	2.9000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005		7.9431	7.9431	8.8000e-004		7.9650
Vendor	0.0348	2.1254	0.2819	2.8900e-003	8.0700e-003	2.1000e-004	8.2900e-003	2.4300e-003	2.0000e-004	2.6300e-003		306.0160	306.0160	0.0333		306.8489
Worker	0.1866	0.0273	0.5139	8.6000e-004	0.0540	1.4200e-003	0.0554	0.0148	1.3000e-003	0.0161		84.8191	84.8191	1.8400e-003		84.8652
Total	**0.2221**	**2.1983**	**0.7999**	**3.8200e-003**	**0.0623**	**1.6300e-003**	**0.0640**	**0.0173**	**1.5000e-003**	**0.0188**		**398.7781**	**398.7781**	**0.0360**		**399.6791**

3.6 Trenching - 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	lb/day										lb/day					
Off-Road	0.7302	3.6574	10.2017	0.0172		0.0977	0.0977		0.0977	0.0977		1,625.9438	1,625.9438	0.0650		1,627.5683
Total	**0.7302**	**3.6574**	**10.2017**	**0.0172**		**0.0977**	**0.0977**		**0.0977**	**0.0977**		**1,625.9438**	**1,625.9438**	**0.0650**		**1,627.5683**

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	lb/day										lb/day					
Hauling	1.2500e-003	0.0868	7.7000e-003	1.4000e-004	2.0000e-004	1.0000e-005	2.1000e-004	6.0000e-005	1.0000e-005	6.0000e-005		15.1296	15.1296	1.6700e-003		15.1715
Vendor	3.4800e-003	0.2125	0.0282	2.9000e-004	8.1000e-004	2.0000e-005	8.3000e-004	2.4000e-004	2.0000e-005	2.6000e-004		30.6016	30.6016	3.3300e-003		30.6849
Worker	0.0320	4.6800e-003	0.0881	1.5000e-004	9.2500e-003	2.4000e-004	9.5000e-003	2.5300e-003	2.2000e-004	2.7500e-003		14.5404	14.5404	3.2000e-004		14.5483
Total	**0.0367**	**0.3040**	**0.1240**	**5.8000e-004**	**0.0103**	**2.7000e-004**	**0.0105**	**2.8300e-003**	**2.5000e-004**	**3.0700e-003**		**60.2716**	**60.2716**	**5.3200e-003**		**60.4047**

3.6 Trenching - 2034

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	lb/day										lb/day					
Off-Road	0.1717	0.7439	10.5860	0.0172		0.0229	0.0229		0.0229	0.0229	0.0000	1,625.9438	1,625.9438	0.0650		1,627.5683
Total	**0.1717**	**0.7439**	**10.5860**	**0.0172**		**0.0229**	**0.0229**		**0.0229**	**0.0229**	**0.0000**	**1,625.9438**	**1,625.9438**	**0.0650**		**1,627.5683**

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	lb/day										lb/day					
Hauling	1.2500e-003	0.0868	7.7000e-003	1.4000e-004	2.0000e-004	1.0000e-005	2.1000e-004	6.0000e-005	1.0000e-005	6.0000e-005		15.1296	15.1296	1.6700e-003		15.1715
Vendor	3.4800e-003	0.2125	0.0282	2.9000e-004	8.1000e-004	2.0000e-005	8.3000e-004	2.4000e-004	2.0000e-005	2.6000e-004		30.6016	30.6016	3.3300e-003		30.6849
Worker	0.0320	4.6800e-003	0.0881	1.5000e-004	9.2500e-003	2.4000e-004	9.5000e-003	2.5300e-003	2.2000e-004	2.7500e-003		14.5404	14.5404	3.2000e-004		14.5483
Total	**0.0367**	**0.3040**	**0.1240**	**5.8000e-004**	**0.0103**	**2.7000e-004**	**0.0105**	**2.8300e-003**	**2.5000e-004**	**3.0700e-003**		**60.2716**	**60.2716**	**5.3200e-003**		**60.4047**

3.7 Paving - 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	lb/day										lb/day					
Off-Road	0.6923	3.5601	7.9248	0.0140		0.1653	0.1653		0.1653	0.1653		1,328.2584	1,328.2584	0.0623		1,329.8151
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6923**	**3.5601**	**7.9248**	**0.0140**		**0.1653**	**0.1653**		**0.1653**	**0.1653**		**1,328.2584**	**1,328.2584**	**0.0623**		**1,329.8151**

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	lb/day										lb/day					
Hauling	0.0117	0.8133	0.0722	1.3400e-003	1.8700e-003	7.0000e-005	1.9400e-003	5.3000e-004	7.0000e-005	6.0000e-004		141.8402	141.8402	0.0157		142.2327
Vendor	1.7400e-003	0.1063	0.0141	1.4000e-004	4.0000e-004	1.0000e-005	4.1000e-004	1.2000e-004	1.0000e-005	1.3000e-004		15.3008	15.3008	1.6700e-003		15.3425
Worker	0.0128	1.8700e-003	0.0352	6.0000e-005	3.7000e-003	1.0000e-004	3.8000e-003	1.0100e-003	9.0000e-005	1.1000e-003		5.8162	5.8162	1.3000e-004		5.8193
Total	**0.0262**	**0.9215**	**0.1215**	**1.5400e-003**	**5.9700e-003**	**1.8000e-004**	**6.1500e-003**	**1.6600e-003**	**1.7000e-004**	**1.8300e-003**		**162.9571**	**162.9571**	**0.0175**		**163.3945**

3.7 Paving - 2034

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	lb/day										lb/day					
Off-Road	0.1402	0.6077	8.6478	0.0140		0.0187	0.0187		0.0187	0.0187	0.0000	1,328.2584	1,328.2584	0.0623		1,329.8151
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1402**	**0.6077**	**8.6478**	**0.0140**		**0.0187**	**0.0187**		**0.0187**	**0.0187**	**0.0000**	**1,328.2584**	**1,328.2584**	**0.0623**		**1,329.8151**

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	lb/day										lb/day					
Hauling	0.0117	0.8133	0.0722	1.3400e-003	1.8700e-003	7.0000e-005	1.9400e-003	5.3000e-004	7.0000e-005	6.0000e-004		141.8402	141.8402	0.0157		142.2327
Vendor	1.7400e-003	0.1063	0.0141	1.4000e-004	4.0000e-004	1.0000e-005	4.1000e-004	1.2000e-004	1.0000e-005	1.3000e-004		15.3008	15.3008	1.6700e-003		15.3425
Worker	0.0128	1.8700e-003	0.0352	6.0000e-005	3.7000e-003	1.0000e-004	3.8000e-003	1.0100e-003	9.0000e-005	1.1000e-003		5.8162	5.8162	1.3000e-004		5.8193
Total	**0.0262**	**0.9215**	**0.1215**	**1.5400e-003**	**5.9700e-003**	**1.8000e-004**	**6.1500e-003**	**1.6600e-003**	**1.7000e-004**	**1.8300e-003**		**162.9571**	**162.9571**	**0.0175**		**163.3945**

3.8 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	56.1299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2615	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656
Total	**56.3913**	**1.7126**	**3.5955**	**5.9400e-003**		**0.0406**	**0.0406**		**0.0406**	**0.0406**		**562.8961**	**562.8961**	**0.0228**		**563.4656**

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	lb/day										lb/day					
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
Vendor	1.7400e-003	0.1063	0.0141	1.4000e-004	4.0000e-004	1.0000e-005	4.1000e-004	1.2000e-004	1.0000e-005	1.3000e-004		15.3008	15.3008	1.6700e-003		15.3425
Worker	0.0160	2.3400e-003	0.0441	7.0000e-005	4.6300e-003	1.2000e-004	4.7500e-003	1.2700e-003	1.1000e-004	1.3800e-003		7.2702	7.2702	1.6000e-004		7.2742
Total	**0.0177**	**0.1086**	**0.0581**	**2.1000e-004**	**5.0300e-003**	**1.3000e-004**	**5.1600e-003**	**1.3900e-003**	**1.2000e-004**	**1.5100e-003**		**22.5710**	**22.5710**	**1.8300e-003**		**22.6166**

3.8 Architectural Coating - 2034

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	lb/day										lb/day					
Archit. Coating	56.1299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0228		563.4656
Total	**56.1893**	**0.2575**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0228**		**563.4656**

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	lb/day										lb/day					
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
Vendor	1.7400e-003	0.1063	0.0141	1.4000e-004	4.0000e-004	1.0000e-005	4.1000e-004	1.2000e-004	1.0000e-005	1.3000e-004		15.3008	15.3008	1.6700e-003		15.3425
Worker	0.0160	2.3400e-003	0.0441	7.0000e-005	4.6300e-003	1.2000e-004	4.7500e-003	1.2700e-003	1.1000e-004	1.3800e-003		7.2702	7.2702	1.6000e-004		7.2742
Total	**0.0177**	**0.1086**	**0.0581**	**2.1000e-004**	**5.0300e-003**	**1.3000e-004**	**5.1600e-003**	**1.3900e-003**	**1.2000e-004**	**1.5100e-003**		**22.5710**	**22.5710**	**1.8300e-003**		**22.6166**

3.8 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	56.1299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161
Total	**56.3656**	**1.5155**	**3.5886**	**5.9400e-003**		**0.0198**	**0.0198**		**0.0198**	**0.0198**		**562.8961**	**562.8961**	**0.0208**		**563.4161**

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	lb/day										lb/day					
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
Vendor	1.7400e-003	0.1060	0.0141	1.4000e-004	4.0000e-004	1.0000e-005	4.1000e-004	1.2000e-004	1.0000e-005	1.3000e-004		15.3092	15.3092	1.6300e-003		15.3500
Worker	0.0148	2.1500e-003	0.0413	7.0000e-005	4.6300e-003	1.1000e-004	4.7400e-003	1.2700e-003	1.0000e-004	1.3700e-003		7.1645	7.1645	1.4000e-004		7.1680
Total	**0.0165**	**0.1081**	**0.0553**	**2.1000e-004**	**5.0300e-003**	**1.2000e-004**	**5.1500e-003**	**1.3900e-003**	**1.1000e-004**	**1.5000e-003**		**22.4737**	**22.4737**	**1.7700e-003**		**22.5181**

3.8 Architectural Coating - 2035

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	lb/day										lb/day					
Archit. Coating	56.1299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0208		563.4161
Total	**56.1893**	**0.2575**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0208**		**563.4161**

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	lb/day										lb/day					
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
Vendor	1.7400e-003	0.1060	0.0141	1.4000e-004	4.0000e-004	1.0000e-005	4.1000e-004	1.2000e-004	1.0000e-005	1.3000e-004		15.3092	15.3092	1.6300e-003		15.3500
Worker	0.0148	2.1500e-003	0.0413	7.0000e-005	4.6300e-003	1.1000e-004	4.7400e-003	1.2700e-003	1.0000e-004	1.3700e-003		7.1645	7.1645	1.4000e-004		7.1680
Total	**0.0165**	**0.1081**	**0.0553**	**2.1000e-004**	**5.0300e-003**	**1.2000e-004**	**5.1500e-003**	**1.3900e-003**	**1.1000e-004**	**1.5000e-003**		**22.4737**	**22.4737**	**1.7700e-003**		**22.5181**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Limit Parking Supply

Implement Trip Reduction Program

Market Commute Trip Reduction Option

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.9068	36.8807	11.3516	0.0645	0.6986	0.0213	0.7200	0.1867	0.0197	0.2065		6,776.6593	6,776.6593	0.6897		6,793.9011
Unmitigated	3.9157	36.9232	11.6071	0.0661	0.8733	0.0220	0.8953	0.2334	0.0203	0.2537		6,938.3415	6,938.3415	0.6933		6,955.6740

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hospital	2,625.00	2,021.25	1770.00	167,133	133,706
Medical Office Building	3,306.00	819.85	141.55	172,815	138,252
Total	5,931.00	2,841.10	1,911.55	339,948	271,958

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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Hospital	0.00	0.19	0.00	0.00	100.00	0.00	100	0	0
Medical Office Building	0.00	0.19	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.565475	0.033834	0.192058	0.100675	0.009211	0.004032	0.016699	0.069908	0.001423	0.001062	0.004327	0.000756	0.000539
Hospital	0.565475	0.033834	0.192058	0.100675	0.009211	0.004032	0.016699	0.069908	0.001423	0.001062	0.004327	0.000756	0.000539
Medical Office Building	0.565475	0.033834	0.192058	0.100675	0.009211	0.004032	0.016699	0.069908	0.001423	0.001062	0.004327	0.000756	0.000539

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.0383	9.4389	7.9286	0.0566		0.7174	0.7174		0.7174	0.7174		11,326.6318	11,326.6318	0.2171	0.2077	11,393.9403
NaturalGas Unmitigated	1.4833	13.4841	11.3266	0.0809		1.0248	1.0248		1.0248	1.0248		16,180.9025	16,180.9025	0.3101	0.2967	16,277.0575

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	lb/day										lb/day					
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
Hospital	137538	1.4833	13.4841	11.3266	0.0809		1.0248	1.0248		1.0248	1.0248		16,180.9025	16,180.9025	0.3101	0.2967	16,277.0575
Medical Office Building	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
Total		**1.4833**	**13.4841**	**11.3266**	**0.0809**		**1.0248**	**1.0248**		**1.0248**	**1.0248**		**16,180.9025**	**16,180.9025**	**0.3101**	**0.2967**	**16,277.0575**

5.2 Energy by Land Use - NaturalGas

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	lb/day										lb/day					
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
Hospital	96.2764	1.0383	9.4389	7.9286	0.0566		0.7174	0.7174		0.7174	0.7174		11,326.6318	11,326.6318	0.2171	0.2077	11,393.9403
Medical Office Building	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
Total		**1.0383**	**9.4389**	**7.9286**	**0.0566**		**0.7174**	**0.7174**		**0.7174**	**0.7174**		**11,326.6318**	**11,326.6318**	**0.2171**	**0.2077**	**11,393.9403**

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	lb/day										lb/day					
Mitigated	10.0161	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493
Unmitigated	10.0161	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493

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	lb/day										lb/day					
Architectural Coating	0.6151					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.3910					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.9400e-003	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493
Total	**10.0161**	**9.8000e-004**	**0.1086**	**1.0000e-005**		**3.9000e-004**	**3.9000e-004**		**3.9000e-004**	**3.9000e-004**		**0.2342**	**0.2342**	**6.0000e-004**		**0.2493**

6.2 Area by SubCategory

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	lb/day										lb/day					
Architectural Coating	0.6151					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.3910					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.9400e-003	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493
Total	**10.0161**	**9.8000e-004**	**0.1086**	**1.0000e-005**		**3.9000e-004**	**3.9000e-004**		**3.9000e-004**	**3.9000e-004**		**0.2342**	**0.2342**	**6.0000e-004**		**0.2493**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Kaiser Moreno Valley - Phase III LST

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	375.00	1000sqft	8.61	375,000.00	0
Medical Office Building	95.00	1000sqft	2.18	95,000.00	0
Enclosed Parking with Elevator	600.00	Space	5.40	240,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2035
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	238.86	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - In accordance with SB 100 goal of 100% renewable by 2045.

Land Use - Based on project description.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.
Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - Based on applicant provided information. Grading is balanced onsite.

On-road Fugitive Dust - CalEEMod defaults.

Grading - CalEEMod defaults.

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Based on trip gen for Phase III.

Road Dust - CalEEMod defaults.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults for electricity. Natural gas based on applicant provided information.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - water 3x daily and vehicle speed limit of 15 mph on unpaved roads.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation - All LED lighting. Compliance with 2019 Title 24.

Water Mitigation -

Waste Mitigation - In accordance with AB 939.

Kaiser Moreno Valley - Phase III LST - Riverside-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	300.00	500.00
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	30.00	50.00
tblConstructionPhase	NumDays	10.00	50.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	4.52	0.00
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	5.56	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24NG	6.03	0.00
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	8.35	8.69
tblEnergyUse	T24E	3.07	0.00
tblEnergyUse	T24NG	69.49	133.87
tblEnergyUse	T24NG	3.47	0.00
tblGrading	AcresOfGrading	50.00	75.00

tblGrading	AcresOfGrading	25.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblTripsAndVMT	HaulingTripLength	20.00	0.19
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tblTripsAndVMT	HaulingTripLength	20.00	0.19
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tblTripsAndVMT	HaulingTripNumber	0.00	2,000.00

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tblTripsAndVMT	HaulingTripNumber	0.00	200.00
tblTripsAndVMT	VendorTripLength	6.90	0.19
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tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
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tblVehicleTrips	CC_TL	8.40	0.19
tblVehicleTrips	CC_TL	8.40	0.19
tblVehicleTrips	CC_TTP	16.10	100.00
tblVehicleTrips	CC_TTP	51.40	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
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tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	64.90	0.00
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tblVehicleTrips	DV_TP	25.00	0.00
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tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	10.00	0.00
tblVehicleTrips	PR_TP	73.00	100.00
tblVehicleTrips	PR_TP	60.00	100.00
tblVehicleTrips	ST_TR	10.18	5.39
tblVehicleTrips	ST_TR	8.96	8.63
tblVehicleTrips	SU_TR	8.91	4.72

tblVehicleTrips	SU_TR	1.55	1.49
tblVehicleTrips	WD_TR	13.22	7.00
tblVehicleTrips	WD_TR	36.13	34.80

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2032	2.8474	14.8114	22.0523	0.0717	1.6011	0.3547	1.7735	0.1747	0.3547	0.3600	0.0000	6,835.9190	6,835.9190	0.3082	0.0000	6,843.6247
2033	1.8796	12.7434	22.0064	0.0437	0.0622	0.2068	0.2690	0.0172	0.2067	0.2239	0.0000	4,033.1705	4,033.1705	0.1931	0.0000	4,037.9987
2034	56.4043	12.7344	21.9635	0.0437	0.0623	0.2067	0.2690	0.0173	0.2066	0.2238	0.0000	4,032.1382	4,032.1382	0.1920	0.0000	4,036.9388
2035	56.3777	1.6210	3.6507	6.1400e-003	5.0300e-003	0.0199	0.0250	1.3900e-003	0.0199	0.0213	0.0000	583.1073	583.1073	0.0228	0.0000	583.6774
Maximum	**56.4043**	**14.8114**	**22.0523**	**0.0717**	**1.6011**	**0.3547**	**1.7735**	**0.1747**	**0.3547**	**0.3600**	**0.0000**	**6,835.9190**	**6,835.9190**	**0.3082**	**0.0000**	**6,843.6247**

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2032	0.7563	8.3355	29.0020	0.0717	0.6307	0.0905	0.6809	0.0699	0.0905	0.1201	0.0000	6,835.9190	6,835.9190	0.3082	0.0000	6,843.6247
2033	0.6762	8.3253	23.9263	0.0437	0.0622	0.0535	0.1157	0.0172	0.0534	0.0706	0.0000	4,033.1705	4,033.1705	0.1931	0.0000	4,037.9987
2034	56.2022	8.3163	23.8834	0.0437	0.0623	0.0534	0.1158	0.0173	0.0533	0.0706	0.0000	4,032.1382	4,032.1382	0.1920	0.0000	4,036.9388
2035	56.2014	0.3631	3.7270	6.1400e-003	5.0300e-003	8.0500e-003	0.0131	1.3900e-003	8.0400e-003	9.4200e-003	0.0000	583.1073	583.1073	0.0228	0.0000	583.6774
Maximum	**56.2022**	**8.3355**	**29.0020**	**0.0717**	**0.6307**	**0.0905**	**0.6809**	**0.0699**	**0.0905**	**0.1201**	**0.0000**	**6,835.9190**	**6,835.9190**	**0.3082**	**0.0000**	**6,843.6247**

	ROG	NOx	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	**3.13**	**39.54**	**-15.60**	**0.00**	**56.07**	**73.92**	**60.39**	**49.76**	**73.95**	**67.35**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	lb/day										lb/day					
Area	10.0161	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493
Energy	1.4833	13.4841	11.3266	0.0809		1.0248	1.0248		1.0248	1.0248		16,180.9025	16,180.9025	0.3101	0.2967	16,277.0575
Mobile	3.0791	35.8267	13.6509	0.0586	0.8733	0.0227	0.8960	0.2334	0.0210	0.2544		6,143.7872	6,143.7872	0.7847		6,163.4037
Total	**14.5785**	**49.3118**	**25.0862**	**0.1395**	**0.8733**	**1.0479**	**1.9212**	**0.2334**	**1.0462**	**1.2796**		**22,324.9239**	**22,324.9239**	**1.0954**	**0.2967**	**22,440.7105**

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	lb/day										lb/day					
Area	10.0161	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493
Energy	1.0383	9.4389	7.9286	0.0566		0.7174	0.7174		0.7174	0.7174		11,326.6318	11,326.6318	0.2171	0.2077	11,393.9403
Mobile	3.0706	35.7820	13.4445	0.0571	0.6986	0.0221	0.7207	0.1867	0.0204	0.2072		5,992.5308	5,992.5308	0.7812		6,012.0603
Total	**14.1249**	**45.2219**	**21.4818**	**0.1137**	**0.6986**	**0.7398**	**1.4384**	**0.1867**	**0.7382**	**0.9249**		**17,319.3967**	**17,319.3967**	**0.9989**	**0.2077**	**17,406.2498**

	ROG	NOx	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	**3.11**	**8.29**	**14.37**	**18.46**	**20.00**	**29.40**	**25.13**	**20.00**	**29.44**	**27.72**	**0.00**	**22.42**	**22.42**	**8.81**	**30.00**	**22.43**

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	1/1/2032	3/24/2032	5	60	
2	Site Preparation	Site Preparation	3/25/2032	6/2/2032	5	50	
3	Grading	Grading	6/3/2032	8/11/2032	5	50	
4	Building Construction	Building Construction	8/12/2032	7/12/2034	5	500	
5	Trenching	Trenching	7/13/2034	11/15/2034	5	90	
6	Paving	Paving	11/16/2034	12/13/2034	5	20	
7	Architectural Coating	Architectural Coating	12/14/2034	2/7/2035	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 5.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 705,000; Non-Residential Outdoor: 235,000; Striped Parking Area: 14,400 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Crawler Tractors	3	8.00	212	0.43
Demolition	Excavators	0	8.00	158	0.38

Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	3	8.00	203	0.36
Demolition	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Other Construction Equipment	1	8.00	172	0.42
Building Construction	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	4	8.00	46	0.45
Trenching	Excavators	1	8.00	158	0.38
Trenching	Rollers	1	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38

Architectural Coating	Air Compressors	2	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	10	80.00	4.00	2,000.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	40.00	4.00	120.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Grading	6	30.00	4.00	1,300.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Building Construction	10	350.00	40.00	280.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Trenching	4	60.00	4.00	96.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Paving	3	24.00	2.00	200.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	30.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 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	lb/day										lb/day					
Off-Road	2.7644	11.9696	19.6031	0.0673		0.3540	0.3540		0.3540	0.3540		6,377.4845	6,377.4845	0.2413		6,383.5171
Total	**2.7644**	**11.9696**	**19.6031**	**0.0673**		**0.3540**	**0.3540**		**0.3540**	**0.3540**		**6,377.4845**	**6,377.4845**	**0.2413**		**6,383.5171**

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	lb/day										lb/day					
Hauling	0.0440	2.6255	0.3333	3.8900e-003	6.2400e-003	3.4000e-004	6.5700e-003	1.7700e-003	3.2000e-004	2.0900e-003		412.6553	412.6553	0.0624		414.2151
Vendor	3.8400e-003	0.2085	0.0361	2.5000e-004	8.1000e-004	3.0000e-005	8.3000e-004	2.4000e-004	3.0000e-005	2.7000e-004		26.9163	26.9163	3.9600e-003		27.0153
Worker	0.0351	7.8400e-003	0.1462	1.9000e-004	0.0123	3.7000e-004	0.0127	3.3700e-003	3.4000e-004	3.7100e-003		18.8629	18.8629	5.7000e-004		18.8772
Total	**0.0830**	**2.8418**	**0.5155**	**4.3300e-003**	**0.0194**	**7.4000e-004**	**0.0201**	**5.3800e-003**	**6.9000e-004**	**6.0700e-003**		**458.4345**	**458.4345**	**0.0669**		**460.1076**

3.2 Demolition - 2032

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	lb/day										lb/day					
Off-Road	0.6733	2.9177	28.4865	0.0673		0.0898	0.0898		0.0898	0.0898	0.0000	6,377.4845	6,377.4845	0.2413		6,383.5171
Total	**0.6733**	**2.9177**	**28.4865**	**0.0673**		**0.0898**	**0.0898**		**0.0898**	**0.0898**	**0.0000**	**6,377.4845**	**6,377.4845**	**0.2413**		**6,383.5171**

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	lb/day										lb/day					
Hauling	0.0440	2.6255	0.3333	3.8900e-003	6.2400e-003	3.4000e-004	6.5700e-003	1.7700e-003	3.2000e-004	2.0900e-003		412.6553	412.6553	0.0624		414.2151
Vendor	3.8400e-003	0.2085	0.0361	2.5000e-004	8.1000e-004	3.0000e-005	8.3000e-004	2.4000e-004	3.0000e-005	2.7000e-004		26.9163	26.9163	3.9600e-003		27.0153
Worker	0.0351	7.8400e-003	0.1462	1.9000e-004	0.0123	3.7000e-004	0.0127	3.3700e-003	3.4000e-004	3.7100e-003		18.8629	18.8629	5.7000e-004		18.8772
Total	**0.0830**	**2.8418**	**0.5155**	**4.3300e-003**	**0.0194**	**7.4000e-004**	**0.0201**	**5.3800e-003**	**6.9000e-004**	**6.0700e-003**		**458.4345**	**458.4345**	**0.0669**		**460.1076**

3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6364	2.9809	6.2428	0.0157		0.0704	0.0704		0.0704	0.0704		1,487.9260	1,487.9260	0.0561		1,489.3279
Total	**0.6364**	**2.9809**	**6.2428**	**0.0157**	**0.0000**	**0.0704**	**0.0704**	**0.0000**	**0.0704**	**0.0704**		**1,487.9260**	**1,487.9260**	**0.0561**		**1,489.3279**

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	lb/day										lb/day					
Hauling	3.1700e-003	0.1890	0.0240	2.8000e-004	4.5000e-004	2.0000e-005	4.7000e-004	1.3000e-004	2.0000e-005	1.5000e-004		29.7112	29.7112	4.4900e-003		29.8235
Vendor	3.8400e-003	0.2085	0.0361	2.5000e-004	8.1000e-004	3.0000e-005	8.3000e-004	2.4000e-004	3.0000e-005	2.7000e-004		26.9163	26.9163	3.9600e-003		27.0153
Worker	0.0176	3.9200e-003	0.0731	1.0000e-004	6.1700e-003	1.8000e-004	6.3500e-003	1.6900e-003	1.7000e-004	1.8600e-003		9.4314	9.4314	2.9000e-004		9.4386
Total	**0.0246**	**0.4014**	**0.1332**	**6.3000e-004**	**7.4300e-003**	**2.3000e-004**	**7.6500e-003**	**2.0600e-003**	**2.2000e-004**	**2.2800e-003**		**66.0589**	**66.0589**	**8.7400e-003**		**66.2773**

3.3 Site Preparation - 2032

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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1571	0.6807	7.6590	0.0157		0.0210	0.0210		0.0210	0.0210	0.0000	1,487.9260	1,487.9260	0.0561		1,489.3279
Total	**0.1571**	**0.6807**	**7.6590**	**0.0157**	**0.0000**	**0.0210**	**0.0210**	**0.0000**	**0.0210**	**0.0210**	**0.0000**	**1,487.9260**	**1,487.9260**	**0.0561**		**1,489.3279**

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	lb/day										lb/day					
Hauling	3.1700e-003	0.1890	0.0240	2.8000e-004	4.5000e-004	2.0000e-005	4.7000e-004	1.3000e-004	2.0000e-005	1.5000e-004		29.7112	29.7112	4.4900e-003		29.8235
Vendor	3.8400e-003	0.2085	0.0361	2.5000e-004	8.1000e-004	3.0000e-005	8.3000e-004	2.4000e-004	3.0000e-005	2.7000e-004		26.9163	26.9163	3.9600e-003		27.0153
Worker	0.0176	3.9200e-003	0.0731	1.0000e-004	6.1700e-003	1.8000e-004	6.3500e-003	1.6900e-003	1.7000e-004	1.8600e-003		9.4314	9.4314	2.9000e-004		9.4386
Total	**0.0246**	**0.4014**	**0.1332**	**6.3000e-004**	**7.4300e-003**	**2.3000e-004**	**7.6500e-003**	**2.0600e-003**	**2.2000e-004**	**2.2800e-003**		**66.0589**	**66.0589**	**8.7400e-003**		**66.2773**

3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.4129	5.3235	12.4279	0.0373		0.1720	0.1720		0.1720	0.1720		3,535.6410	3,535.6410	0.1244		3,538.7503
Total	**1.4129**	**5.3235**	**12.4279**	**0.0373**	**1.5908**	**0.1720**	**1.7627**	**0.1718**	**0.1720**	**0.3438**		**3,535.6410**	**3,535.6410**	**0.1244**		**3,538.7503**

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	lb/day										lb/day					
Hauling	0.0344	2.0479	0.2599	3.0300e-003	4.8600e-003	2.6000e-004	5.1300e-003	1.3800e-003	2.5000e-004	1.6300e-003		321.8712	321.8712	0.0487		323.0878
Vendor	3.8400e-003	0.2085	0.0361	2.5000e-004	8.1000e-004	3.0000e-005	8.3000e-004	2.4000e-004	3.0000e-005	2.7000e-004		26.9163	26.9163	3.9600e-003		27.0153
Worker	0.0132	2.9400e-003	0.0548	7.0000e-005	4.6300e-003	1.4000e-004	4.7600e-003	1.2700e-003	1.3000e-004	1.3900e-003		7.0736	7.0736	2.1000e-004		7.0790
Total	**0.0514**	**2.2593**	**0.3508**	**3.3500e-003**	**0.0103**	**4.3000e-004**	**0.0107**	**2.8900e-003**	**4.1000e-004**	**3.2900e-003**		**355.8610**	**355.8610**	**0.0528**		**357.1820**

3.4 Grading - 2032

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	lb/day										lb/day					
Fugitive Dust					0.6204	0.0000	0.6204	0.0670	0.0000	0.0670			0.0000			0.0000
Off-Road	0.3733	1.6176	17.0293	0.0373		0.0498	0.0498		0.0498	0.0498	0.0000	3,535.6410	3,535.6410	0.1244		3,538.7503
Total	**0.3733**	**1.6176**	**17.0293**	**0.0373**	**0.6204**	**0.0498**	**0.6702**	**0.0670**	**0.0498**	**0.1168**	**0.0000**	**3,535.6410**	**3,535.6410**	**0.1244**		**3,538.7503**

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	lb/day										lb/day					
Hauling	0.0344	2.0479	0.2599	3.0300e-003	4.8600e-003	2.6000e-004	5.1300e-003	1.3800e-003	2.5000e-004	1.6300e-003		321.8712	321.8712	0.0487		323.0878
Vendor	3.8400e-003	0.2085	0.0361	2.5000e-004	8.1000e-004	3.0000e-005	8.3000e-004	2.4000e-004	3.0000e-005	2.7000e-004		26.9163	26.9163	3.9600e-003		27.0153
Worker	0.0132	2.9400e-003	0.0548	7.0000e-005	4.6300e-003	1.4000e-004	4.7600e-003	1.2700e-003	1.3000e-004	1.3900e-003		7.0736	7.0736	2.1000e-004		7.0790
Total	**0.0514**	**2.2593**	**0.3508**	**3.3500e-003**	**0.0103**	**4.3000e-004**	**0.0107**	**2.8900e-003**	**4.1000e-004**	**3.2900e-003**		**355.8610**	**355.8610**	**0.0528**		**357.1820**

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	lb/day										lb/day					
Off-Road	1.6998	10.5903	21.0464	0.0403		0.2050	0.2050		0.2050	0.2050		3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**1.6998**	**10.5903**	**21.0464**	**0.0403**		**0.2050**	**0.2050**		**0.2050**	**0.2050**		**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	7.4000e-004	0.0441	5.6000e-003	7.0000e-005	3.8000e-004	1.0000e-005	3.8000e-004	1.0000e-004	1.0000e-005	1.0000e-004		6.9326	6.9326	1.0500e-003		6.9588
Vendor	0.0384	2.0848	0.3607	2.5400e-003	8.0700e-003	2.7000e-004	8.3400e-003	2.4300e-003	2.6000e-004	2.6900e-003		269.1631	269.1631	0.0396		270.1525
Worker	0.1536	0.0343	0.6396	8.3000e-004	0.0540	1.6100e-003	0.0556	0.0148	1.4800e-003	0.0162		82.5251	82.5251	2.5000e-003		82.5877
Total	**0.1927**	**2.1633**	**1.0059**	**3.4400e-003**	**0.0624**	**1.8900e-003**	**0.0643**	**0.0173**	**1.7500e-003**	**0.0190**		**358.6208**	**358.6208**	**0.0431**		**359.6990**

3.5 Building Construction - 2032

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	lb/day										lb/day					
Off-Road	0.4964	6.1723	22.9664	0.0403		0.0518	0.0518		0.0518	0.0518	0.0000	3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**0.4964**	**6.1723**	**22.9664**	**0.0403**		**0.0518**	**0.0518**		**0.0518**	**0.0518**	**0.0000**	**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	7.4000e-004	0.0441	5.6000e-003	7.0000e-005	3.8000e-004	1.0000e-005	3.8000e-004	1.0000e-004	1.0000e-005	1.0000e-004		6.9326	6.9326	1.0500e-003		6.9588
Vendor	0.0384	2.0848	0.3607	2.5400e-003	8.0700e-003	2.7000e-004	8.3400e-003	2.4300e-003	2.6000e-004	2.6900e-003		269.1631	269.1631	0.0396		270.1525
Worker	0.1536	0.0343	0.6396	8.3000e-004	0.0540	1.6100e-003	0.0556	0.0148	1.4800e-003	0.0162		82.5251	82.5251	2.5000e-003		82.5877
Total	**0.1927**	**2.1633**	**1.0059**	**3.4400e-003**	**0.0624**	**1.8900e-003**	**0.0643**	**0.0173**	**1.7500e-003**	**0.0190**		**358.6208**	**358.6208**	**0.0431**		**359.6990**

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	lb/day										lb/day					
Off-Road	1.6998	10.5903	21.0464	0.0403		0.2050	0.2050		0.2050	0.2050		3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**1.6998**	**10.5903**	**21.0464**	**0.0403**		**0.2050**	**0.2050**		**0.2050**	**0.2050**		**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	7.4000e-004	0.0441	5.6700e-003	7.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	5.0000e-005		6.9382	6.9382	1.0200e-003		6.9637
Vendor	0.0383	2.0779	0.3601	2.5400e-003	8.0700e-003	2.6000e-004	8.3300e-003	2.4300e-003	2.5000e-004	2.6800e-003		269.3026	269.3026	0.0386		270.2677
Worker	0.1408	0.0310	0.5942	8.2000e-004	0.0540	1.5100e-003	0.0555	0.0148	1.3900e-003	0.0162		80.9657	80.9657	2.2400e-003		81.0218
Total	**0.1799**	**2.1530**	**0.9600**	**3.4300e-003**	**0.0622**	**1.7800e-003**	**0.0640**	**0.0172**	**1.6500e-003**	**0.0189**		**357.2064**	**357.2064**	**0.0419**		**358.2532**

3.5 Building Construction - 2033

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	lb/day										lb/day					
Off-Road	0.4964	6.1723	22.9664	0.0403		0.0518	0.0518		0.0518	0.0518	0.0000	3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**0.4964**	**6.1723**	**22.9664**	**0.0403**		**0.0518**	**0.0518**		**0.0518**	**0.0518**	**0.0000**	**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	7.4000e-004	0.0441	5.6700e-003	7.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	5.0000e-005		6.9382	6.9382	1.0200e-003		6.9637
Vendor	0.0383	2.0779	0.3601	2.5400e-003	8.0700e-003	2.6000e-004	8.3300e-003	2.4300e-003	2.5000e-004	2.6800e-003		269.3026	269.3026	0.0386		270.2677
Worker	0.1408	0.0310	0.5942	8.2000e-004	0.0540	1.5100e-003	0.0555	0.0148	1.3900e-003	0.0162		80.9657	80.9657	2.2400e-003		81.0218
Total	**0.1799**	**2.1530**	**0.9600**	**3.4300e-003**	**0.0622**	**1.7800e-003**	**0.0640**	**0.0172**	**1.6500e-003**	**0.0189**		**357.2064**	**357.2064**	**0.0419**		**358.2532**

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	lb/day										lb/day					
Off-Road	1.6998	10.5903	21.0464	0.0403		0.2050	0.2050		0.2050	0.2050		3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**1.6998**	**10.5903**	**21.0464**	**0.0403**		**0.2050**	**0.2050**		**0.2050**	**0.2050**		**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	7.4000e-004	0.0441	5.7300e-003	7.0000e-005	2.9000e-004	1.0000e-005	2.9000e-004	8.0000e-005	0.0000	8.0000e-005		6.9487	6.9487	1.0000e-003		6.9737
Vendor	0.0383	2.0718	0.3596	2.5500e-003	8.0700e-003	2.5000e-004	8.3200e-003	2.4300e-003	2.4000e-004	2.6700e-003		269.6213	269.6213	0.0378		270.5655
Worker	0.1290	0.0282	0.5517	8.0000e-004	0.0540	1.4200e-003	0.0554	0.0148	1.3000e-003	0.0161		79.6041	79.6041	2.0000e-003		79.6541
Total	**0.1680**	**2.1440**	**0.9171**	**3.4200e-003**	**0.0623**	**1.6800e-003**	**0.0640**	**0.0173**	**1.5400e-003**	**0.0188**		**356.1741**	**356.1741**	**0.0408**		**357.1934**

3.5 Building Construction - 2034

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	lb/day										lb/day					
Off-Road	0.4964	6.1723	22.9664	0.0403		0.0518	0.0518		0.0518	0.0518	0.0000	3,675.9641	3,675.9641	0.1513		3,679.7454
Total	**0.4964**	**6.1723**	**22.9664**	**0.0403**		**0.0518**	**0.0518**		**0.0518**	**0.0518**	**0.0000**	**3,675.9641**	**3,675.9641**	**0.1513**		**3,679.7454**

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	lb/day										lb/day					
Hauling	7.4000e-004	0.0441	5.7300e-003	7.0000e-005	2.9000e-004	1.0000e-005	2.9000e-004	8.0000e-005	0.0000	8.0000e-005		6.9487	6.9487	1.0000e-003		6.9737
Vendor	0.0383	2.0718	0.3596	2.5500e-003	8.0700e-003	2.5000e-004	8.3200e-003	2.4300e-003	2.4000e-004	2.6700e-003		269.6213	269.6213	0.0378		270.5655
Worker	0.1290	0.0282	0.5517	8.0000e-004	0.0540	1.4200e-003	0.0554	0.0148	1.3000e-003	0.0161		79.6041	79.6041	2.0000e-003		79.6541
Total	**0.1680**	**2.1440**	**0.9171**	**3.4200e-003**	**0.0623**	**1.6800e-003**	**0.0640**	**0.0173**	**1.5400e-003**	**0.0188**		**356.1741**	**356.1741**	**0.0408**		**357.1934**

3.6 Trenching - 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	lb/day										lb/day					
Off-Road	0.7302	3.6574	10.2017	0.0172		0.0977	0.0977		0.0977	0.0977		1,625.9438	1,625.9438	0.0650		1,627.5683
Total	**0.7302**	**3.6574**	**10.2017**	**0.0172**		**0.0977**	**0.0977**		**0.0977**	**0.0977**		**1,625.9438**	**1,625.9438**	**0.0650**		**1,627.5683**

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	lb/day										lb/day					
Hauling	1.4200e-003	0.0839	0.0109	1.2000e-004	2.0000e-004	1.0000e-005	2.1000e-004	6.0000e-005	1.0000e-005	7.0000e-005		13.2357	13.2357	1.9000e-003		13.2832
Vendor	3.8300e-003	0.2072	0.0360	2.5000e-004	8.1000e-004	3.0000e-005	8.3000e-004	2.4000e-004	2.0000e-005	2.7000e-004		26.9621	26.9621	3.7800e-003		27.0566
Worker	0.0221	4.8400e-003	0.0946	1.4000e-004	9.2500e-003	2.4000e-004	9.5000e-003	2.5300e-003	2.2000e-004	2.7500e-003		13.6464	13.6464	3.4000e-004		13.6550
Total	**0.0274**	**0.2959**	**0.1415**	**5.1000e-004**	**0.0103**	**2.8000e-004**	**0.0105**	**2.8300e-003**	**2.5000e-004**	**3.0900e-003**		**53.8442**	**53.8442**	**6.0200e-003**		**53.9948**

3.6 Trenching - 2034

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	lb/day										lb/day					
Off-Road	0.1717	0.7439	10.5860	0.0172		0.0229	0.0229		0.0229	0.0229	0.0000	1,625.9438	1,625.9438	0.0650		1,627.5683
Total	**0.1717**	**0.7439**	**10.5860**	**0.0172**		**0.0229**	**0.0229**		**0.0229**	**0.0229**	**0.0000**	**1,625.9438**	**1,625.9438**	**0.0650**		**1,627.5683**

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	lb/day										lb/day					
Hauling	1.4200e-003	0.0839	0.0109	1.2000e-004	2.0000e-004	1.0000e-005	2.1000e-004	6.0000e-005	1.0000e-005	7.0000e-005		13.2357	13.2357	1.9000e-003		13.2832
Vendor	3.8300e-003	0.2072	0.0360	2.5000e-004	8.1000e-004	3.0000e-005	8.3000e-004	2.4000e-004	2.0000e-005	2.7000e-004		26.9621	26.9621	3.7800e-003		27.0566
Worker	0.0221	4.8400e-003	0.0946	1.4000e-004	9.2500e-003	2.4000e-004	9.5000e-003	2.5300e-003	2.2000e-004	2.7500e-003		13.6464	13.6464	3.4000e-004		13.6550
Total	**0.0274**	**0.2959**	**0.1415**	**5.1000e-004**	**0.0103**	**2.8000e-004**	**0.0105**	**2.8300e-003**	**2.5000e-004**	**3.0900e-003**		**53.8442**	**53.8442**	**6.0200e-003**		**53.9948**

3.7 Paving - 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	lb/day										lb/day					
Off-Road	0.6923	3.5601	7.9248	0.0140		0.1653	0.1653		0.1653	0.1653		1,328.2584	1,328.2584	0.0623		1,329.8151
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6923**	**3.5601**	**7.9248**	**0.0140**		**0.1653**	**0.1653**		**0.1653**	**0.1653**		**1,328.2584**	**1,328.2584**	**0.0623**		**1,329.8151**

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	lb/day										lb/day					
Hauling	0.0133	0.7866	0.1023	1.1700e-003	1.8700e-003	9.0000e-005	1.9600e-003	5.3000e-004	9.0000e-005	6.2000e-004		124.0842	124.0842	0.0178		124.5303
Vendor	1.9100e-003	0.1036	0.0180	1.3000e-004	4.0000e-004	1.0000e-005	4.2000e-004	1.2000e-004	1.0000e-005	1.3000e-004		13.4811	13.4811	1.8900e-003		13.5283
Worker	8.8400e-003	1.9400e-003	0.0378	6.0000e-005	3.7000e-003	1.0000e-004	3.8000e-003	1.0100e-003	9.0000e-005	1.1000e-003		5.4586	5.4586	1.4000e-004		5.4620
Total	**0.0240**	**0.8921**	**0.1581**	**1.3600e-003**	**5.9700e-003**	**2.0000e-004**	**6.1800e-003**	**1.6600e-003**	**1.9000e-004**	**1.8500e-003**		**143.0238**	**143.0238**	**0.0199**		**143.5206**

3.7 Paving - 2034

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	lb/day										lb/day					
Off-Road	0.1402	0.6077	8.6478	0.0140		0.0187	0.0187		0.0187	0.0187	0.0000	1,328.2584	1,328.2584	0.0623		1,329.8151
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1402**	**0.6077**	**8.6478**	**0.0140**		**0.0187**	**0.0187**		**0.0187**	**0.0187**	**0.0000**	**1,328.2584**	**1,328.2584**	**0.0623**		**1,329.8151**

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	lb/day										lb/day					
Hauling	0.0133	0.7866	0.1023	1.1700e-003	1.8700e-003	9.0000e-005	1.9600e-003	5.3000e-004	9.0000e-005	6.2000e-004		124.0842	124.0842	0.0178		124.5303
Vendor	1.9100e-003	0.1036	0.0180	1.3000e-004	4.0000e-004	1.0000e-005	4.2000e-004	1.2000e-004	1.0000e-005	1.3000e-004		13.4811	13.4811	1.8900e-003		13.5283
Worker	8.8400e-003	1.9400e-003	0.0378	6.0000e-005	3.7000e-003	1.0000e-004	3.8000e-003	1.0100e-003	9.0000e-005	1.1000e-003		5.4586	5.4586	1.4000e-004		5.4620
Total	**0.0240**	**0.8921**	**0.1581**	**1.3600e-003**	**5.9700e-003**	**2.0000e-004**	**6.1800e-003**	**1.6600e-003**	**1.9000e-004**	**1.8500e-003**		**143.0238**	**143.0238**	**0.0199**		**143.5206**

3.8 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	56.1299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2615	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656
Total	**56.3913**	**1.7126**	**3.5955**	**5.9400e-003**		**0.0406**	**0.0406**		**0.0406**	**0.0406**		**562.8961**	**562.8961**	**0.0228**		**563.4656**

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	lb/day										lb/day					
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
Vendor	1.9100e-003	0.1036	0.0180	1.3000e-004	4.0000e-004	1.0000e-005	4.2000e-004	1.2000e-004	1.0000e-005	1.3000e-004		13.4811	13.4811	1.8900e-003		13.5283
Worker	0.0111	2.4200e-003	0.0473	7.0000e-005	4.6300e-003	1.2000e-004	4.7500e-003	1.2700e-003	1.1000e-004	1.3800e-003		6.8232	6.8232	1.7000e-004		6.8275
Total	**0.0130**	**0.1060**	**0.0653**	**2.0000e-004**	**5.0300e-003**	**1.3000e-004**	**5.1700e-003**	**1.3900e-003**	**1.2000e-004**	**1.5100e-003**		**20.3043**	**20.3043**	**2.0600e-003**		**20.3558**

3.8 Architectural Coating - 2034

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	lb/day										lb/day					
Archit. Coating	56.1299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0228		563.4656
Total	**56.1893**	**0.2575**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0228**		**563.4656**

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	lb/day										lb/day					
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
Vendor	1.9100e-003	0.1036	0.0180	1.3000e-004	4.0000e-004	1.0000e-005	4.2000e-004	1.2000e-004	1.0000e-005	1.3000e-004		13.4811	13.4811	1.8900e-003		13.5283
Worker	0.0111	2.4200e-003	0.0473	7.0000e-005	4.6300e-003	1.2000e-004	4.7500e-003	1.2700e-003	1.1000e-004	1.3800e-003		6.8232	6.8232	1.7000e-004		6.8275
Total	**0.0130**	**0.1060**	**0.0653**	**2.0000e-004**	**5.0300e-003**	**1.3000e-004**	**5.1700e-003**	**1.3900e-003**	**1.2000e-004**	**1.5100e-003**		**20.3043**	**20.3043**	**2.0600e-003**		**20.3558**

3.8 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	56.1299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161
Total	**56.3656**	**1.5155**	**3.5886**	**5.9400e-003**		**0.0198**	**0.0198**		**0.0198**	**0.0198**		**562.8961**	**562.8961**	**0.0208**		**563.4161**

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	lb/day										lb/day					
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
Vendor	1.9100e-003	0.1033	0.0180	1.3000e-004	4.0000e-004	1.0000e-005	4.2000e-004	1.2000e-004	1.0000e-005	1.3000e-004		13.4882	13.4882	1.8500e-003		13.5345
Worker	0.0102	2.2200e-003	0.0442	7.0000e-005	4.6300e-003	1.1000e-004	4.7400e-003	1.2700e-003	1.0000e-004	1.3700e-003		6.7230	6.7230	1.5000e-004		6.7268
Total	**0.0121**	**0.1055**	**0.0621**	**2.0000e-004**	**5.0300e-003**	**1.2000e-004**	**5.1600e-003**	**1.3900e-003**	**1.1000e-004**	**1.5000e-003**		**20.2112**	**20.2112**	**2.0000e-003**		**20.2613**

3.8 Architectural Coating - 2035

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	lb/day										lb/day					
Archit. Coating	56.1299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0208		563.4161
Total	**56.1893**	**0.2575**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0208**		**563.4161**

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	lb/day										lb/day					
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
Vendor	1.9100e-003	0.1033	0.0180	1.3000e-004	4.0000e-004	1.0000e-005	4.2000e-004	1.2000e-004	1.0000e-005	1.3000e-004		13.4882	13.4882	1.8500e-003		13.5345
Worker	0.0102	2.2200e-003	0.0442	7.0000e-005	4.6300e-003	1.1000e-004	4.7400e-003	1.2700e-003	1.0000e-004	1.3700e-003		6.7230	6.7230	1.5000e-004		6.7268
Total	**0.0121**	**0.1055**	**0.0621**	**2.0000e-004**	**5.0300e-003**	**1.2000e-004**	**5.1600e-003**	**1.3900e-003**	**1.1000e-004**	**1.5000e-003**		**20.2112**	**20.2112**	**2.0000e-003**		**20.2613**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Limit Parking Supply

Implement Trip Reduction Program

Market Commute Trip Reduction Option

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.0706	35.7820	13.4445	0.0571	0.6986	0.0221	0.7207	0.1867	0.0204	0.2072		5,992.5308	5,992.5308	0.7812		6,012.0603
Unmitigated	3.0791	35.8267	13.6509	0.0586	0.8733	0.0227	0.8960	0.2334	0.0210	0.2544		6,143.7872	6,143.7872	0.7847		6,163.4037

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hospital	2,625.00	2,021.25	1770.00	167,133	133,706
Medical Office Building	3,306.00	819.85	141.55	172,815	138,252
Total	5,931.00	2,841.10	1,911.55	339,948	271,958

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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Hospital	0.00	0.19	0.00	0.00	100.00	0.00	100	0	0
Medical Office Building	0.00	0.19	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.565475	0.033834	0.192058	0.100675	0.009211	0.004032	0.016699	0.069908	0.001423	0.001062	0.004327	0.000756	0.000539
Hospital	0.565475	0.033834	0.192058	0.100675	0.009211	0.004032	0.016699	0.069908	0.001423	0.001062	0.004327	0.000756	0.000539
Medical Office Building	0.565475	0.033834	0.192058	0.100675	0.009211	0.004032	0.016699	0.069908	0.001423	0.001062	0.004327	0.000756	0.000539

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.0383	9.4389	7.9286	0.0566		0.7174	0.7174		0.7174	0.7174		11,326.6318	11,326.6318	0.2171	0.2077	11,393.9403
NaturalGas Unmitigated	1.4833	13.4841	11.3266	0.0809		1.0248	1.0248		1.0248	1.0248		16,180.9025	16,180.9025	0.3101	0.2967	16,277.0575

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	lb/day										lb/day					
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
Hospital	137538	1.4833	13.4841	11.3266	0.0809		1.0248	1.0248		1.0248	1.0248		16,180.9025	16,180.9025	0.3101	0.2967	16,277.0575
Medical Office Building	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
Total		**1.4833**	**13.4841**	**11.3266**	**0.0809**		**1.0248**	**1.0248**		**1.0248**	**1.0248**		**16,180.9025**	**16,180.9025**	**0.3101**	**0.2967**	**16,277.0575**

5.2 Energy by Land Use - NaturalGas

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	lb/day										lb/day					
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
Hospital	96.2764	1.0383	9.4389	7.9286	0.0566		0.7174	0.7174		0.7174	0.7174		11,326.6318	11,326.6318	0.2171	0.2077	11,393.9403
Medical Office Building	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
Total		**1.0383**	**9.4389**	**7.9286**	**0.0566**		**0.7174**	**0.7174**		**0.7174**	**0.7174**		**11,326.6318**	**11,326.6318**	**0.2171**	**0.2077**	**11,393.9403**

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	lb/day										lb/day					
Mitigated	10.0161	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493
Unmitigated	10.0161	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493

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	lb/day										lb/day					
Architectural Coating	0.6151					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.3910					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.9400e-003	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493
Total	**10.0161**	**9.8000e-004**	**0.1086**	**1.0000e-005**		**3.9000e-004**	**3.9000e-004**		**3.9000e-004**	**3.9000e-004**		**0.2342**	**0.2342**	**6.0000e-004**		**0.2493**

6.2 Area by SubCategory

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	lb/day										lb/day					
Architectural Coating	0.6151					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.3910					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.9400e-003	9.8000e-004	0.1086	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2342	0.2342	6.0000e-004		0.2493
Total	**10.0161**	**9.8000e-004**	**0.1086**	**1.0000e-005**		**3.9000e-004**	**3.9000e-004**		**3.9000e-004**	**3.9000e-004**		**0.2342**	**0.2342**	**6.0000e-004**		**0.2493**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Kaiser Permanente Moreno Valley Medical Center Master Plan Project Air Quality Technical Report

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April 2019

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Kaiser Permanente
Moreno Valley Medical Center
Master Plan Project
Air Quality Technical Report

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List of Acronyms and Abbreviations

AAQS	Ambient Air Quality Standard
ADMRT	Air Dispersion and Risk Assessment Tool
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
BPIP-PRIME	Building Profile Input Program with Plume Rise Model Enhancements
CAAQS	California Ambient Air Quality Standard
CalEPA	California Environmental Protection Agency
CalEEMod	California Emissions Estimator Model
CAPCOA	California Air Pollution Control Officers Association
CAS	Chemical Abstracts Service
CEQA	California Environmental Quality Act
CO	Carbon Monoxide
CUP	Central Utility Plant
DPM	Diesel Particulate Matter
e.g.	For Example
EIR	Environmental Impact Report
EPA	[United States] Environmental Protection Agency
etc.	Et Cetera (Unspecified Additional Items)
ft	Feet
g	Gram
GLC	Ground Level Concentration
g/s	Grams per Second
HARP2	Hotspots Analysis and Reporting Program, Version 2
HIA	Acute Hazard Index
HIC	Chronic Hazard Index
HP	Horsepower
hr	Hour
HRA	Health Risk Assessment
I-215	Interstate 215 Freeway
^{o}K	Degrees Kelvin
K-12	Kindergarten through 12th Grade
km	Kilometer
kW	Kilowatt
lb	Pound
LST	Localized Significance Threshold
LTS	Less Than Significant
m	Meter
MICR	Maximum Individual Cancer Risk
MMBtu	Million British thermal units
m/s	Meter per Second
NAAQS	National Ambient Air Quality Standard

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NED	National Elevation Dataset
NO_x	Oxides of nitrogen
OEHHA	Office of Environmental Health Hazard Assessment
PAHs	Polycyclic Aromatic Hydrocarbons
$PM_{2.5}$	Fine Particulate Matter (Less Than 2.5 Microns in Size)
PM_{10}	Respirable Particulate Matter (Less Than 10 Microns in Size)
PS	Potentially Significant
REL	Reference Exposure Level
RMP	Risk Management Policy
SCAB	South Coast Air Basin
SCAQMD	South Coast Air Quality Management District
SO_x	Oxides of Sulfur
SR	State Route
SRA	Source Receptor Area
TAC	Toxic Air Contaminant
USGS	United States Geological Survey
UTM	Universal Transverse Mercator
VOC	Volatile Organic Compound
WAF	Worker Adjustment Factor
yr	Year
ZOI	Zone of Impact
X/Q	Average Effluent Concentration Normalized by Source Strength

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Kaiser Permanente Moreno Valley Medical Center Master Plan Project Air Quality Technical Report

1.0 INTRODUCTION

1.1 Project Overview

Kaiser Permanente is proposing to expand the existing Kaiser Permanente Moreno Valley Medical Center campus. The proposed Kaiser Permanente Moreno Valley Medical Center Master Plan Project (the project) would be a multi-phased, state-of-the-art medical center campus, which would include the following at ultimate project buildout: an approximately 460-bed hospital, hospital support buildings, outpatient medical office buildings, an energy center, and surface and structured parking.

The project would be developed in up to three phases, with the first phase evaluated in the Environmental Impact Report (EIR) on a project level and Phases II and III analyzed at a programmatic level. Phase I would include an expansion of the existing hospital for a Diagnostic and Treatment building and the construction of a new Energy Center. Phase II would include the construction of a new hospital tower, expansion of the Diagnostic and Treatment building, construction of one new outpatient medical office building, and construction of two multi-level parking structures. Lastly, Phase III would include the demolition, replacement, and expansion of the existing hospital tower, construction of an additional outpatient medical office building, expansion of the Energy Center, and construction of a third multi-level parking structure. The latter two phases can only be analyzed at a programmatic level in the EIR because not all the facilities of the project are moving forward at this time and development of these phases will be based on several factors that are presently unknown. These unknown factors include the future growth of Kaiser Permanente membership within the City and surrounding communities, the future regional demand for the project's services, the evolution of healthcare technology, the portability of the healthcare environment, legislative and regulatory changes required by healthcare reform, and the business and healthcare needs of Kaiser Permanente.

Construction of these facilities is expected to occur over 16 years, from 2020 to 2035. The construction period has been divided into three phases to allow for the continued use of the site during reconstruction.

This Air Quality Technical Report includes emissions estimations using the California Emissions Estimator Model® (CalEEMod), the application of the South Coast Air Quality Management District's (SCAQMD's) air quality significance thresholds for evaluating projects subject to the California Environmental Quality Act (CEQA), a Localized Significance Threshold (LST) analysis, and a construction and operational phase health risk assessment (HRA) to predict potential health effects due to project-related toxic air contaminant (TAC) emissions. These evaluations will support an EIR for the Lead Agency, the City of Moreno Valley (the City). This report has been prepared by Yorke Engineering, LLC (Yorke) in support of the draft EIR prepared by Dudek for this proposed project. All other air quality and greenhouse gas (GHG) emissions issues are discussed elsewhere in the draft EIR.

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1.2 Project Location

The project site is located at 27300 Iris Avenue in Moreno Valley, California. Regionally, the project site is located east of Interstate 215 (I-215), south of State Route 60 (SR-60), and north of Lake Perris within the City of Moreno Valley in Riverside County. More specifically, the project site is located on the north side of Iris Avenue, west of Oliver Street, and east of Nason Street, shown outlined in red in Figure 1-1.

Figure 1-1: Project Location Map and Points of Interest



The general vicinity surrounding the project site is developed with a mix of residential and rural residential uses. Single-family residential development occurs to the south, east, and west of the hospital. Iris Avenue forms the southern site boundary, and an undeveloped disturbed lot surrounds the hospital on the northern, eastern, and western boundaries. Undeveloped open space occurs to the northwest.

There are several kindergarten through 12th grade (K-12) schools within 2 miles of the project site and one K-12 school within 1,000 feet of this property. The Landmark Middle School is approximately 750 feet to the northeast from the closest point of the project property.

With respect to air quality analyses, the proposed project is located in the South Coast Air Basin (SCAB) within the jurisdiction of the SCAQMD.

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1.3 Project Phasing

The project would be constructed in up to three phases. The project's phased development would occur between 2020 and 2035. The following sections describe each of the project phases.

1.3.1 Phase I – 2020 to 2023

Phase I, which is being analyzed at a project level within the EIR, would include a 95,000-square-foot expansion of the existing hospital for a Diagnostic and Treatment building and the construction of a new 20,000-square-foot Energy Center. Construction of Phase I of the project would commence in 2020 and be completed by 2023.

1.3.2 Phase II – 2026 to 2032

Phase II of the project, which, along with Phase III, is being evaluated at a programmatic level within the EIR, would include the construction of a new hospital tower with approximately 220 beds, the expansion of the Diagnostic and Treatment building that was constructed in Phase I (380,000 square feet), the construction of one new outpatient medical office building (65,000 square feet), an 8,000 square foot expansion of the Energy Center, and the construction of two multi-level parking structures. The multi-level parking structures would accommodate approximately 1,800 new parking spaces under Phase II. For purposes of analysis under CEQA, Phase II impacts will be based on the maximum anticipated medical uses. Construction of Phase II would commence in 2026 and be completed by 2032.

1.3.3 Phase III – 2032 to 2035

Phase III would include the demolition, replacement, and expansion of the existing hospital tower to accommodate approximately 240 additional beds (375,000 square feet), construction of an additional outpatient medical office building (95,000 square feet), and construction of a third multi-level parking structure (approximately 600 spaces). For purposes of analysis under CEQA, Phase III impacts will be based on the maximum anticipated medical uses. Construction of Phase III of the project would commence in 2032 and be completed by 2035.

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2.0 EMISSION ESTIMATES

Construction and operational emissions were developed by Dudek using CalEEMod and provided to Yorke for use in the CEQA emissions threshold and LST analysis and the HRA. The complete CalEEMod output files can be found in the draft EIR. This section summarizes the emissions appropriate for comparison to the CEQA thresholds and use in the LST analysis, as well as the TAC emissions used for the HRA.

CalEEMod is the official statewide land use computer model designed to provide a uniform platform for estimating potential emissions associated with both construction and operations of land use projects under CEQA. CalEEMod was developed by the California Air Pollution Control Officers Association (CAPCOA) in collaboration with the SCAQMD and other California air districts using default land use data (e.g., emission factors, trip lengths, meteorology, source inventory, etc.) to account for local requirements and conditions.

2.1 Construction Emissions

CalEEMod was used to quantify direct emissions from the construction activities. Maximum construction emissions were calculated for three phases of construction lasting from 2020 through 2035. Project design features that reduce emissions were included in CalEEMod as mitigation measures, including an assumption that all construction equipment with engines >75 horsepower (HP) will meet United States Environmental Protection Agency (EPA) Tier 4 Final or greater emission standards (EPA 2016). CalEEMod results for mitigated construction emissions reflect these project design features to reduce impacts from pollutant emissions, along with calculating the benefits achieved from the selected measures.

A project's construction phase produces many types of emissions, but respirable particulate matter less than 10 microns in diameter (PM_{10}) [including fine particulate matter less than 2.5 microns in diameter ($PM_{2.5}$)] in fugitive dust and diesel engine exhaust is the pollutant of greatest concern. Fugitive dust emissions can result from a variety of construction activities, including excavation, grading, demolition, vehicle travel on paved and unpaved surfaces, and vehicle exhaust. Construction-related emissions can cause substantial increases in localized concentrations of PM_{10}, as well as affecting PM_{10} compliance with Ambient Air Quality Standards (AAQS) on a regional basis. Particulate emissions from construction activities can lead to adverse health effects and nuisance concerns, such as reduced visibility and soiling of exposed surfaces. The use of diesel-powered construction equipment emits ozone precursors, such as oxides of nitrogen (NO_x), reactive organic gases [ROGs, also called volatile organic compounds (VOCs)], carbon monoxide (CO), oxides of sulfur (SO_x), and diesel particulate matter (DPM), the latter being a composite of TACs containing a variety of hazardous substances. The use of architectural coatings and other materials associated with finishing buildings may also emit ROGs.

Attachment A includes a summary of CalEEMod emissions per phase.

2.1.1 Construction Emissions CEQA Thresholds Comparison

Total on-site and off-site construction emissions include emissions from the on-site construction equipment plus worker vehicles and delivery trucks traveling to and from the site. These emissions are compared to the SCAQMD CEQA air quality significance thresholds to determine the potential for impacts from the construction activity emissions on local and regional air quality.

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Table 2-1 shows that the construction emissions from Phase I are below each of the pollutant emission significance thresholds. Thus, the Phase I construction activities should have a less than significant impact on air quality.

Table 2-1: Phase I Construction Emissions Summary and Significance Evaluation

Criteria Pollutants	Project Emissions (lb/day)	Threshold (lb/day)	Significance
ROGs (VOCs)	36.8	75	LTS
NO_x	14.2	100	LTS
CO	32.5	550	LTS
SO_x	0.1	150	LTS
Total PM_{10}	7.9	150	LTS
Total $PM_{2.5}$	4.1	55	LTS

Sources: SCAQMD 2015b, CalEEMod version 2016.3.2

Notes:

lb/day are winter or summer maximums for planned construction phase

Total PM_{10}/$PM_{2.5}$ comprises fugitive dust plus engine exhaust

LTS – Less Than Significant

Table 2-2 shows that the construction emissions from Phase II are below all of the significance thresholds. Thus, the Phase II construction activities should have a less than significant impact on air quality.

Table 2-2: Phase II Construction Emissions Summary and Significance Evaluation

Criteria Pollutants	Project Emissions (lb/day)	Threshold (lb/day)	Significance
ROGs (VOCs)	43.4	75	LTS
NO_x	11.6	100	LTS
CO	34.2	550	LTS
SO_x	0.1	150	LTS
Total PM_{10}	2.9	150	LTS
Total $PM_{2.5}$	0.8	55	LTS

Sources: SCAQMD 2015b, CalEEMod version 2016.3.2

Notes:

lb/day are winter or summer maximum for planned construction phase

Total PM_{10}/$PM_{2.5}$ comprises fugitive dust plus engine exhaust

LTS – Less Than Significant

Table 2-3 shows that the construction emissions from Phase III are below all of the significance thresholds. Thus, the Phase III construction activities should have a less than significant impact on air quality.

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Table 2-3: Phase III Construction Emissions Summary and Significance Evaluation

Criteria Pollutants	Project Emissions (lb/day)	Threshold (lb/day)	Significance
ROGs (VOCs)	56.3	75	LTS
NO_x	9.0	100	LTS
CO	31.5	550	LTS
SO_x	0.1	150	LTS
Total PM_{10}	4.3	150	LTS
Total $PM_{2.5}$	1.2	55	LTS

Sources: SCAQMD 2015b, CalEEMod version 2016.3.2

Notes:

lb/day are winter or summer maximum for planned construction phase

Total PM_{10}/$PM_{2.5}$ comprises fugitive dust plus engine exhaust

LTS – Less Than Significant

2.1.2 Construction Emissions LST Analysis

The LST methodology was developed by the SCAQMD to be used as a tool to assist Lead Agencies to analyze localized impacts associated with proposed projects (SCAQMD 2008). The LST mass rate look-up tables allow a reviewer to readily determine if the daily emissions for proposed construction or operational activities could result in significant localized air quality impacts. The tabulated LSTs represent the maximum mass emissions from a project that will not cause or contribute to an exceedance of NO_x, CO, PM_{10}, and $PM_{2.5}$ California or National AAQS (CAAQS or NAAQS) and were developed based on ambient concentrations of these pollutants for each Source Receptor Area (SRA) in the SCAB. If the calculated emissions for the proposed construction or operational activities are below the LST emission levels found on the LST mass rate look-up tables and no potentially significant impacts are found to be associated with other environmental issues, then the proposed construction or operation activity is not significant for air quality.

The LST methodology uses look-up tables based on site acreage, distance to the nearest receptor, and the local SRA to determine the significance of emissions for CEQA purposes.

Project-related construction activities will occur in three phases. Within each construction phase, activities were broken into multiple subphases consisting of demolition, site preparation, grading, building construction, trenching, paving, and architectural coating for the analyses. Although the entire project site is approximately 30 acres, less than 5 acres will be disturbed during any construction subphase; thus, project emissions are compared to the SCAQMD 5-acre thresholds.

For the purposes of an LST analysis, the SCAQMD considers a sensitive receptor to be a receptor such as a residence, hospital, or convalescent facility where it is possible that an individual could remain for 24 hours. The nearest off-site receptors are the residents along the south side of Iris Avenue, more than 50 meters away.

The LST analysis was based on values in the look-up tables for 5-acre sites with receptors at least 50 meters away, within the Perris Valley SRA.

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The LST results presented in Tables 2-4, 2-5, and 2-6 show that on-site emissions from construction during Phases I, II, and III, respectively, will meet the LST passing criteria at the nearest receptors; thus, the construction activities should have a less than significant impact on air quality.

Table 2-4: Phase I Construction LST Evaluation

Criteria Pollutants	Project Emissions (lb/day)	Threshold (lb/day)	Result
NO_x	7.3	302	Pass
CO	21.7	2,178	Pass
PM_{10}	7.3	40	Pass
$PM_{2.5}$	4.0	10	Pass

Sources: SCAQMD 2008, CalEEMod version 2016.3.2

Notes:

SRA Zone 24 – Perris Valley

5-acre area, 50 meters to receptor

Emissions do not include off-site mobile sources

Table 2-5: Phase II Construction LST Evaluation

Criteria Pollutants	Project Emissions (lb/day)	Threshold (lb/day)	Result
NO_x	10.9	302	Pass
CO	29.6	2,178	Pass
PM_{10}	0.5	40	Pass
$PM_{2.5}$	0.1	10	Pass

Sources: SCAQMD 2008, CalEEMod version 2016.3.2

Notes:

SRA Zone 24 – Perris Valley

5-acre area, 50 meters to receptor

Emissions do not include off-site mobile sources

Table 2-6: Phase III Construction LST Evaluation

Criteria Pollutants	Project Emissions (lb/day)	Threshold (lb/day)	Result
NO_x	8.4	302	Pass
CO	29.0	2,178	Pass
PM_{10}	0.7	40	Pass
$PM_{2.5}$	0.1	10	Pass

Sources: SCAQMD 2008, CalEEMod version 2016.3.2

Notes:

SRA Zone 24 – Perris Valley

5-acre area, 50 meters to receptor

Emissions do not include off-site mobile sources

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2.1.3 Construction TAC Emissions

The primary TAC of concern from the construction activities is DPM, and since DPM will account for almost all of the health risks from construction emissions, it was the only TAC included in the construction HRA. All PM_{10} exhaust emissions from construction equipment and on-site delivery trucks were considered to be DPM for the HRA. The estimated emissions during each year of the construction period are shown in Table 2-7.

Table 2-7: Summary of Total Annual Emissions During Construction

Phase	Year	DPM Emissions (lb/yr)
Phase I	2020	8.34
	2021	13.8
	2022	5.9
Phase II	2026	12.46
	2027	16.6
	2028	10.74
	2029	1.28
Phase III	2032	14.26
	2033	13.52
	2034	9.7
	2035	0.22

2.2 Operational Emissions

The term "project operations" refers to the full range of activities that can generate criteria pollutant, GHG, and/or TAC emissions when the project is functioning in its intended use. The primary sources of emissions during operation of the proposed project are the boilers and heaters in the Energy Center, the diesel emergency generator, and the motor vehicles traveling to and from the project site. Minor source emissions occur from the use of natural gas in operations, architectural coatings, landscaping, and indirect GHG emissions from electricity used at the facility and to provide water to the facility.

In Phase I, the existing Central Utility Plant (CUP) will be replaced with the new Energy Center. The existing 1,500-HP diesel generator will be moved to the Energy Center. The following existing equipment will be removed:

- One 6.3-million British thermal unit per hour (MMBtu/hr) and one 4.2 MMBtu/hr natural gas boiler using a total of 217,148 therms/year; and
- One 750-kilowatt (kW) diesel generator.

In Phase I, the following equipment will be installed at the new Energy Center:

- Three 10.5-MMBtu/hr natural gas boilers and three 6.7-MMBtu/hr natural gas heaters using a total of 270,852 therms/year; and
- One 2,000-kW diesel generator.

In Phase II, the following equipment will be installed at the new Energy Center:

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- Three 10.5-MMBtu/hr natural gas boilers and three 6.7-MMBtu/hr natural gas heaters using a total of 679,000 therms/year.

In Phase III, the following equipment will be installed at the new Energy Center:

- Three 10.5-MMBtu/hr natural gas boilers and three 6.7-MMBtu/hr natural gas heaters using a total of 502,000 therms/year.

CalEEMod was used to quantify criteria pollutant and GHG emissions from all operational activities from each phase and for the existing CUP equipment. DPM emissions from mobile sources were also estimated in CalEEMod. Attachment A presents a summary of the CalEEMod emissions per phase and total buildout calculations.

2.2.1 Total Operational Emissions

Total on-site and off-site operational emissions include emissions from the on-site Energy Center equipment, minor sources, and worker vehicles and delivery trucks traveling to and from the site. These emissions are compared to the SCAQMD CEQA air quality significance thresholds to determine the potential for impacts from the operational emissions on local and regional air quality.

Table 2-8 shows that the operational emissions from Phase I are below all of the significance thresholds; thus, the operational activities should have a less than significant impact on air quality.

Table 2-8: Phase I Operational Emissions Summary and Significance Evaluation

Criteria Pollutants	Project Emissions (lb/day)	Threshold (lb/day)	Significance
ROGs (VOCs)	6.3	75	LTS
NO_x	13.2	100	LTS
CO	16.2	550	LTS
SO_x	0.1	150	LTS
Total PM_{10}	1.6	150	LTS
Total $PM_{2.5}$	0.9	55	LTS

Sources: SCAQMD 2015b, CalEEMod version 2016.3.2

Notes:

lb/day are winter or summer maximums for planned land use

Total PM_{10}/$PM_{2.5}$ comprises fugitive dust plus engine exhaust

LTS – Less Than Significant

For examination at the programmatic level, the total buildout emissions were also examined. These emissions include the combined emissions from Phases I through III minus the existing sources that will be removed, as presented in Table 2-9. The total buildout emissions are below all of the significance thresholds for VOCs, CO, SO_x, PM_{10}, and $PM_{2.5}$, and thus should have a less than significant impact on air quality. The operational NO_x emissions are above the threshold; thus, they could have a potentially significant impact, and an LST analysis will be conducted to determine if there is a significant impact. More than half of the operational NO_x emissions are from off-site mobile sources.

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Table 2-9: Total Buildout Operational Emissions Summary and Significance Evaluation

Criteria Pollutants	Existing	Phase I	Phase II	Phase III	Total	Threshold (lb/day)	Significance
	Project Emissions (lb/day)						
VOC	-4.7	6.3	21.0	15.9	**38.5**	55	LTS
NO_x	-4.7	13.2	61.4	52.7	**122.6**	55	PS
CO	-8.0	16.2	46.8	36.8	**91.8**	550	LTS
SO_x	0.0	0.1	0.3	0.2	**0.5**	150	LTS
Total PM_{10}	-0.6	1.6	12.0	11.3	**24.4**	150	LTS
Total $PM_{2.5}$	-0.6	0.9	4.3	3.8	**8.4**	55	LTS

Sources: SCAQMD 2015b, CalEEMod version 2016.3.2

Notes:

lb/day are winter or summer maximums for planned land use

Total PM_{10}/$PM_{2.5}$ comprises fugitive dust plus engine exhaust

Existing emissions are from the existing boilers and generators that will be removed due to the project

LTS – Less Than Significant

PS – Potentially Significant

2.2.2 Operational Emissions LST Analysis

As described in Section 2.1.1, the LST analysis was based on values in the look-up tables for 5-acre sites with receptors at least 50 meters away, within the Perris Valley SRA. The LST emissions include all on-site sources plus the on-site portion of vehicular travel from passenger vehicles and delivery trucks.

Table 2-10 shows that the on-site operational emissions from Phase I are below all of the LST thresholds; thus, the operational activities should have a less than significant impact on air quality.

Table 2-10: Phase I Operational LST Evaluation

Criteria Pollutants	Project Emissions (lb/day)	Threshold (lb/day)	Result
NO_x	12.74	302	Pass
CO	14.29	2,178	Pass
PM_{10}	0.66	10	Pass
$PM_{2.5}$	0.62	3	Pass

Sources: SCAQMD 2008, CalEEMod version 2016.3.2

Notes:

SRA Zone 24 – Perris Valley

5-acre area, 50 meters to receptor

Emissions do not include off-site mobile sources

For examination at the programmatic level, the total buildout emissions were also examined. These emissions include the combined emissions from Phases I through III minus the existing sources that will be removed as presented in Table 2-11. The total

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buildout emissions are below all of the LST thresholds, and thus should have a less than significant impact on air quality.

Table 2-11: Total Buildout Operational LST Evaluation

Criteria Pollutants	Existing	Phase I	Phase II	Phase III	Total	Threshold (lb/day)	Result
	Project Emissions (lb/day)						
NO_x	-4.7	12.7	58.5	50.3	**116.9**	302	Pass
CO	-8.0	14.3	32.5	24.7	**63.5**	2,178	Pass
PM_{10}	-0.6	0.7	2.0	1.6	**3.7**	10	Pass
$PM_{2.5}$	-0.6	0.6	1.6	1.2	**2.8**	3	Pass

Sources: SCAQMD 2008, CalEEMod version 2016.3.2

Notes:

Source-receptor area zone 24 – Perris Valley

5-acre area, 50 meters to receptor

Existing emissions are from the existing boilers and generators that will be removed due to the project

Emissions do not include off-site mobile sources

2.2.3 Operational TAC Emissions

TAC emissions were estimated in a spreadsheet for the new Energy Center boilers, heaters, and emergency generator. DPM emissions from mobile sources were also estimated in CalEEMod.

The TAC emissions from the natural gas boilers and heaters were calculated based on the maximum fuel usage per phase and emission factors from SCAQMD Annual Emission Reporting (AER) guidance.

The diesel emergency generator emissions are based on EPA final Tier 4 engine PM_{10} emission standards, operating 50 hours per year for testing purposes.

The operational emissions at total buildout are shown in Table 2-12. Attachment B presents the TAC emissions per phase and calculation details.

Table 2-12: Total Buildout Operational TAC Emissions

TAC	CAS	Diesel Generator	Natural Gas Boilers and Heaters	Diesel Vehicles	Total
		Annual Emissions (lb/yr)			
DPM	9901	4.29	-	0.60	**4.89**
Benzene	71432	-	1.14	-	**1.14**
Formaldehyde	50000	-	2.42	-	**2.42**
Polycyclic Aromatic Hydrocarbons (PAHs)	1151	-	0.06	-	**0.06**
Ammonia	7664417	-	455.48	-	**455.48**

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3.0 MODELING AND HEALTH RISK ASSESSMENT METHODOLOGY

This section of the report discusses the methodology and model inputs that were used to develop the air dispersion modeling for use in the construction and operational HRA. The results of the HRA are provided in Section 4.0. The construction health risks were assessed for the total construction duration, and the operation health risks were assessed for the total buildout of the project when maximum emissions would occur.

3.1 Air Dispersion Modeling and Input Parameters

Air dispersion models calculate the atmospheric transport and fate of pollutants from the emission source. The models calculate the concentrations of selected pollutants at specific downwind ground level points, such as residential or off-site workplace receptors. The transformation (fate) of an airborne pollutant, its movement with the prevailing winds (transport), its crosswind and vertical movement due to atmospheric turbulence (dispersion), and its removal due to dry and wet deposition are influenced by the pollutant's physical and chemical properties and by meteorological and environmental conditions. Factors such as distance from the source to the receptor, meteorological conditions, intervening land use and terrain, pollutant release characteristics, and background pollutant concentrations affect the predicted air concentration of an air pollutant. Air dispersion models take all of these factors into consideration when calculating downwind ground level pollutant concentrations.

The air dispersion model used for this HRA is the American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD). AERMOD is a steady-state plume dispersion model that incorporates air dispersion calculations based on planetary boundary layer turbulence structure and scaling concepts. AERMOD includes the treatment of both surface and elevated sources and simple and complex terrain. AERMOD, like most dispersion models, uses mathematical algorithms to characterize the atmospheric processes that disperse pollutants emitted by a source. Using emission rates, exhaust parameters, terrain characteristics, and meteorological inputs, AERMOD calculates downwind pollutant concentrations at specified receptor locations. For this facility, the results from the AERMOD runs were imported into the HRA program, HARP2, for further processing and analysis. AERMOD is recommended by both the EPA (2018) and the SCAQMD (2019) for air dispersion modeling projects.

The air dispersion modeling methodology is based on generally accepted modeling practices of the SCAQMD (2019). Since the construction and operation of the proposed project will result in the emissions of TACs, a refined HRA using air dispersion modeling was performed using AERMOD. Attachment C includes the AERMOD input file without the receptors, for brevity. The principal parameters of this modeling include:

- Model Version Selection: The air dispersion model used to generate concentrations for input into the HRA was AERMOD Version 18081, with the Lakes Environmental Software implementation/user interface, AERMOD View™ Version 9.6.5. AERMOD was run with all sources emitting unit emissions [1 gram per second (g/s)] to obtain the "X/Q" values that are necessary for input into the Hotspots Analysis and Reporting Program, version 2 (HARP2). X/Q is a dispersion factor that is the average effluent concentration normalized by source strength and is used as a way to simplify the representation of emissions from many sources for input into HARP2.

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- Model Options: The modeling included the use of standard regulatory default options.
- Urban versus Rural Option: Urban areas typically have more surface roughness and structures and low-albedo surfaces that absorb more sunlight, and thus more heat, relative to rural areas. According to SCAQMD guidelines, the urban dispersion option was selected due to the developed nature of the proposed project area. The project is located in Riverside County; thus, the recommended population of 2,189,641 was used in the analysis (SCAQMD 2019).
- Meteorological Data: AERMOD-specific meteorological data for the Perris air monitoring station were used for the dispersion modeling. For the proposed project, a 5-year meteorological dataset consisting of data from 2010, 2011, 2014, 2015, and 2016 was obtained from the SCAQMD in a preprocessed format suitable for use in AERMOD.
- On-Site Buildings: For the operational scenario, 15 on-site buildings were included in the modeling using best available dimensional data. Building downwash effects were assessed using the Building Profile Input Program with Plume Rise Model Enhancements (BPIP-PRIME) model. The buildings included in the operational analysis are shown in Figure 3-1 in blue. No buildings were included for the construction scenario.
- Terrain Options and Modeling Domain: The AERMOD runs used the regulatory default elevated terrain option. Elevations for all receptors, buildings, and emissions sources were imported directly through the AERMOD View™ WebGIS import feature in the United States Geological Survey (USGS) National Elevation Dataset (NED) TIF format, with a resolution of 1 degree or approximately 30 meters. The NED files were processed by AERMOD View™ using AERMAP Version 18081. All geographical coordinates referenced were in the Universal Transverse Mercator (UTM) coordinate system, with the North American Datum 1983 (NAD83), Zone 11.
- Receptors: Modeling results were obtained at various locations around the facility. These receptor locations were identified as the facility boundary, a grid network of receptors to establish the potential impact area, and discrete receptors that were positioned at specific locations of concern.

  Receptors were located along the facility boundary out 3.5 kilometers to create a uniform grid of receptors. The facility boundary can be seen in red in Figure 3-1. Per SCAQMD guidance, the gridded receptors include:

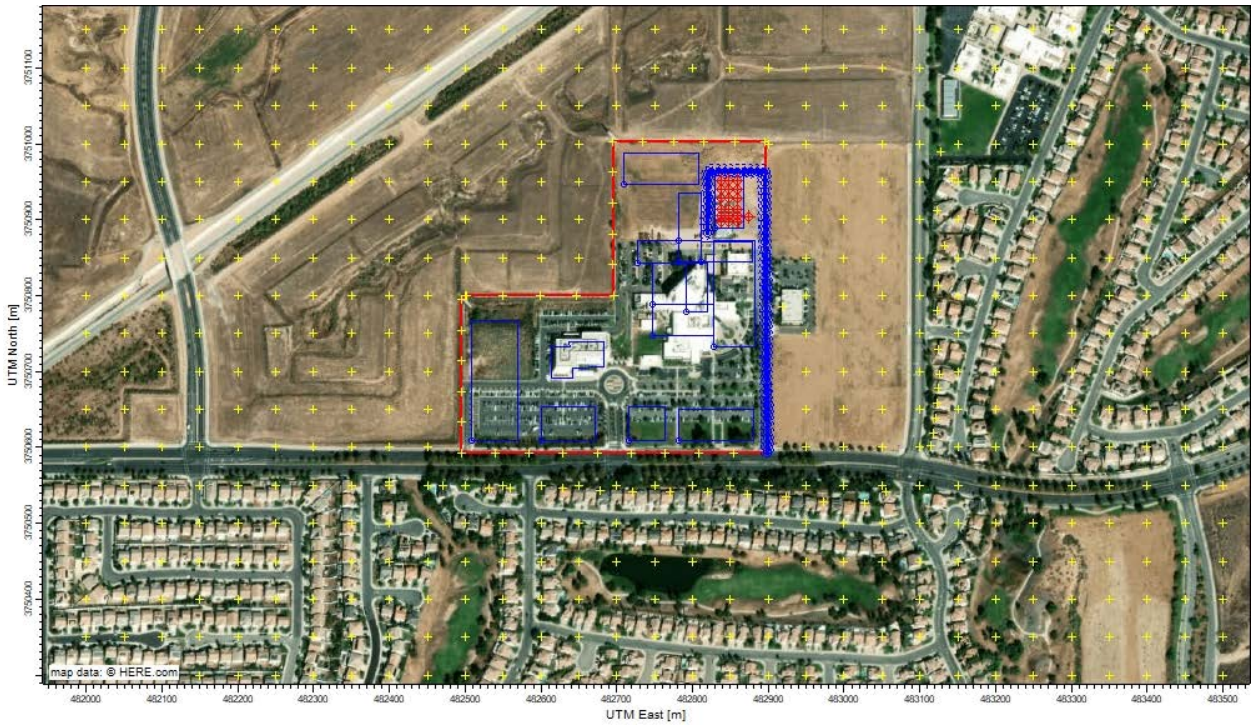
  - Fenceline receptors spaced every 50 meters;
  - 50-meter spacing from the fenceline out to 500 meters;
  - 100-meter spacing from 500 to 1,000 meters; and
  - 250-meter spacing from 1,000 to 3,500 meters.

  Sensitive receptors included schools, daycare centers, hospitals, and nursing homes nearby. Sensitive receptors within 3,500 meters were captured; these included six schools, four daycares, two medical facilities, and four eldercare facilities. Discrete receptors were also located at residences not captured by the grid receptors. A series of receptors were placed along the residences immediately east and south of the project. Google Maps was used to identify each of these receptors as sensitive or residential. To ensure all potential

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workplace locations were analyzed, all receptors described above were included in the off-site worker analysis. Figure 3-1 shows the locations of the receptors in yellow.

Figure 3-1: Facility Operational Sources, Fenceline, and Receptor Locations



3.2 Emissions Sources and Release Parameters

The source inputs and release parameters that were used for the construction and operational HRAs are described below. Attachment C provides a listing of the AERMOD source parameters.

3.2.1 Construction

The construction HRA assessed the potential health risks from the DPM emissions from the construction equipment and on-site delivery trucks over the entire construction period. Construction emissions for all phases were summed to determine the total emissions over the 16-year construction period. Annual average emissions were input into HARP2 to estimate the potential health risks.

For modeling construction emissions impacts using AERMOD, a series of 23 volume sources were located in the areas where the construction activities will occur. A line volume source was included to represent the delivery trucks traveling along the driveway on the eastern side of the property to the farthest construction area. Table 3-1 summarizes the construction source parameters.

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Table 3-1: Construction Source Modeling Characteristics

Source	Number of Volume Sources	Individual Area Side Length (m)	Release Height (m)	Initial Lateral Dimension (m)	Initial Vertical Dimension (m)
Construction Equipment	23	40	0.91	9.3	0.43
Delivery Trucks	53 Separated Line Volume	8.6	3.5	3.94	3.26

3.2.2 Operations

Table 3-2 provides the modeled release characteristics for each type of stationary source. Each stationary source exhaust stack was modeled as an individual point source for the operational scenario. The release parameters for the diesel generator were provided by the applicant and were from typical operations for similar equipment for the heaters and boilers. The delivery trucks were represented in the model using the same line volume source as in the construction scenario, which is shown in Figure 3-1 in blue.

The heaters and boilers will be located in the Energy Center building and the generator will be just outside the Energy Center building, as shown in Figure 3-1 in red.

Table 3-2: Operational Point Source Modeling Characteristics

Description	Stack Height (m)	Stack Diameter (m)	Stack Flowrate (m/s)	Stack Temperature (°K)
Emergency Generator	6.10	0.61	24.73	673.59
Boiler	6.40	0.30	17.53	366.49
Heater	6.40	0.30	11.18	366.49

3.3 HRA Methodology

The HRA followed the SCAQMD Tier 4 techniques (SCAQMD 2015a), which are based on the California Environmental Protection Agency (CalEPA) Office of Environmental Health Hazard Assessment (OEHHA) guidelines (CalEPA OEHHA 2015) Tier 1 techniques, to calculate the health risk impacts at all receptors, including the nearby residential, sensitive, and off-site worker receptors. The health risk calculations were performed using the HARP2 Air Dispersion and Risk Assessment Tool (ADMRT, version 19044). The X/Q values that were determined for each source using AERMOD were imported into HARP2 and used in conjunction with hourly and annual emissions to determine the ground level concentrations (GLCs) for each pollutant. The GLCs were then used to estimate the long-term cancer health risk to an individual and the non-cancer chronic and acute health indices.

A description of the health risk indices and analyses conducted for both the construction and operational HRAs using HARP2 is provided below.

3.3.1 Maximum Individual Cancer Risk

Maximum Individual Cancer Risk (MICR) is the estimated probability of a maximally exposed individual potentially contracting cancer as a result of exposure to TACs over a period of 30 years for residential receptor locations and 25 years for off-site worker

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receptor locations. Sensitive receptors, such as schools, hospitals, convalescent homes, and daycare centers, are evaluated the same as residences. Since the construction activities are planned to last approximately 16 years, a 16-year duration was set for both the residential/sensitive receptors and the off-site workplace cancer risk calculations. Workplace risks were evaluated at all receptors as a conservative estimate, since workplaces border the facility.

Per SCAQMD guidance (SCAQMD 2015a), the exposure pathways used to estimate the MICR for both residential/sensitive receptors and off-site workplace receptors are listed in Table 3-3. Any exposure pathway not explicitly shown in Table 3-3, e.g., drinking water consumption, was not included in this HRA.

Table 3-3: Exposure Pathways

Exposure Pathway	Residential/Sensitive	Off-Site Workplace
Inhalation	Yes	Yes
Homegrown Produce	Yes	No
Dermal	Yes	Yes
Soil Ingestion	Yes	Yes
Mother's Milk	Yes	No

Per SCAQMD guidelines (SCAQMD 2015a), the MICR estimates assumed a deposition velocity of 0.02 meters per second (m/s) and a warm climate for the dermal pathway. Residential/sensitive estimates were calculated using the California Air Resources Board's Risk Management Policy (RMP), "RMP Using the Derived Method," and off-site workplace MICR estimates used the "OEHHA Derived" calculation method. The RMP uses high-end breathing rates (95th percentile) for children from the third trimester through age 2 and 80th percentile breathing rates for all other ages for residential exposures. The "OEHHA Derived" method uses high-end exposure parameters for the top two exposure pathways and mean exposure parameters for the remaining pathways for cancer risk estimates. The "RMP Using the Derived Method" combines the two approaches.

Since the hospital will operate continuously, no Worker Adjustment Factor (WAF) was applied in HARP2 to estimate the off-site worker operational cancer risk. For the construction HRA, it was conservatively assumed that all nearby off-site workers will work 8 hours a day on weekdays, which coincides with the anticipated construction schedule. Thus, a WAF of 4.2 was applied in HARP2 to estimate the off-site worker construction cancer risk.

3.3.2 Chronic Hazard Risk

Some TACs increase non-cancer health risk due to long-term (chronic) exposures. The Chronic Hazard Index (HIC) is the sum of the individual substance HICs for all TACs affecting the same target organ system. The HIC estimates for all receptor types used the "OEHHA Derived" calculation method, which uses high-end exposure parameters for inhalation and the next top two exposure pathways and mean exposure parameters for the remaining pathways for non-cancer risk estimates.

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3.3.3 Acute Hazard Risk

Some TACs increase non-cancer health risk due to short-term (acute) exposures. The Acute Hazard Index (HIA) is the sum of the individual substance HIAs for all TACs affecting the same target organ system. Acute risk is calculated from a 1-hour exposure using the "OEHHA Derived" calculation method. Since DPM does not have an acute Reference Exposure Level (REL), no HIA is estimated for construction.

3.3.4 Cancer Burden

Cancer burden is the estimated increase in the occurrence of cancer cases in a population subject to a MICR of greater than or equal to one in 1 million (1.0×10^{-6}) based on a 70-year exposure to TACs. The cancer burden is determined for the population located within the zone of impact (ZOI), which is defined as the area within the one in 1 million cancer risk isopleth for a 70-year exposure. Cancer burden was not estimated for operations, because there is no population within the ZOI for the 30-year cancer risk.

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4.0 HRA RESULTS

The HRA methodology provides conservative results. Thus, the results presented herein are expected to overestimate the potential health risks. CEQA significance thresholds for TACs are as follows (SCAQMD 2015b):

- MICR ≥10 in 1 million;
- HIC and HIA ≥1.0; and
- Cancer Burden >0.5 excess cancer cases (in areas ≥ one in 1 million).

The results of the construction and operational HRAs are summarized below. Attachment D provides the HARP2 Summary Reports for the construction and operation HRAs.

4.1 Construction Impacts

Table 4-1 presents the results from the project construction HRA at the residential, sensitive, and worker MICR and HIC. For all receptor types, the cancer risk and HIC were predicted to be less than significant. The HIA is not estimated for construction, as DPM does not have an acute REL. Cancer burden was not evaluated for construction impacts, since it is based on a 70-year exposure period and construction only has a 16-year duration. The worker MICR and HIC were predicted to occur on the northern property line. The sensitive MICR and HIC were predicted to occur at the Fresenius Kidney Care Facility, immediately east of the project. The peak residential MICR and HIC were predicted on the south side of Iris Avenue. Figure 4-1 shows the cancer risk isopleth for the construction HRA.

The project construction health risks from DPM emissions are summarized in Table 4-1, and potential impacts will be **less than significant**.

Table 4-1: Construction HRA Results

Health Risk	Impact Parameter	Project Impact	CEQA Threshold	Units	Level of Significance
MICR	Residential	1.47	10	Per Million	Less Than Significant
	Sensitive	2.69			Less Than Significant
	Worker	1.57			Less Than Significant
HIC	Worker	0.0019	1.0	Index Value	Less Than Significant
	Residential	0.0005			Less Than Significant
	Sensitive	0.0009			Less Than Significant

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Figure 4-1: Construction Cancer Risk Isopleth



4.2 Operational Impacts

Table 4-2 presents the results from the project operational HRA at the residential, sensitive, and worker MICR, HIC, and HIA. For all receptor types, the MICR, HIC, and HIA were predicted to be less than significant. The sensitive and worker MICR and HIC, 8-hour HIC, and sensitive and worker HIA were all predicted to occur at the Fresenius Kidney Care Facility. The peak residential MICR, HIC, and HIA were predicted on the south side of Iris Avenue. Figure 4-2 shows the operational cancer risk isopleth. Cancer burden was not estimated since the ZOI did not encompass any locations with population.

The project operational health risks from the TAC emissions are summarized in Table 4-2, and potential impacts would be **less than significant**.

4.3 Heath Risk Summary

Construction activities will occur over a 16-year period, during which time some project-related operations will continue to occur, with full operations commencing at the end of the construction period. The results from the construction HRA and operational HRA are not additive, since the maximum risks reported will occur at different times, will impact different receptors, and are heavily weighted to impact the early years of life, which will vary as the sources come online. However, even if the maximum cancer risks from the construction and operational TAC emissions are combined, the total cancer risk would be less than the significance threshold of 10 in 1 million. The same can be said for the HIC and HIA. Therefore, the proposed project will have a less than significant impact, even during the period when both construction and operation occur simultaneously.

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Table 4-2: Operational HRA Results

Health Risk	Impact Parameter	Project Impact	CEQA Threshold	Units	Level of Significance
MICR	Sensitive	2.53	10	Per Million	Less Than Significant
	Residential	0.80			Less Than Significant
	Worker	0.14			Less Than Significant
HIC	Sensitive and Worker	0.0013	1.0	Index Value	Less Than Significant
	Residential	0.0005			Less Than Significant
	Worker 8-hour	0.0001			Less Than Significant
HIA	Residential	0.00068	1.0	Index Value	Less Than Significant
	Sensitive and Worker	0.00074			Less Than Significant

Figure 4-2: Operation Cancer Risk Isopleth



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5.0 REFERENCES

California Environmental Protection Agency (CalEPA), Office of Environmental Health Hazard Assessment (OEHHA). 2015. Air Toxics Hot Spots Program, Risk Assessment Guidelines, Guidance Manual for Preparation of Health Risk Assessments, February.

South Coast Air Quality Management District (SCAQMD). 2019. SCAQMD Modeling Guidance for AERMOD. Website (http://www.aqmd.gov/home/air-quality/air-quality-data-studies/meteorological-data/modeling-guidance), accessed April 11, 2019.

South Coast Air Quality Management District (SCAQMD). 2015a. Supplemental Guidelines for Preparing Risk Assessments for the Air Toxics "Hot Spots" Information and Assessment Act, June.

South Coast Air Quality Management District (SCAQMD). 2015b. Air Quality Significance Thresholds. Website (http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2) accessed March 22, 2019.

South Coast Air Quality Management District (SCAQMD). Meteorological Data for AERMOD. Website (http://www.aqmd.gov/home/air-quality/air-quality-data-studies/meteorological-data/data-for-aermod) accessed March 21, 2019.

South Coast Air Quality Management District (SCAQMD). 2008. Final Localized Significance Threshold Methodology. July.

U.S. Environmental Protection Agency (EPA). 2016. Emission Standards Reference Guide for On-Road and Nonroad Vehicles and Engines. Website (https://www.epa.gov/emission-standards-reference-guide) accessed February 26, 2018.

U.S. Environmental Protection Agency (EPA). 2018. AERMOD Implementation Guide. EPA-454/B-18-003.

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ATTACHMENT A – CONSTRUCTION AND OPERATIONAL EMISSIONS SUMMARY

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Phase I Construction Emissions Summary and Impact Evaluation

Criteria Pollutants	Project Emissions	Threshold	Impact
	lb/day	lb/day	
VOC	36.8	75	No
NO_X	14.2	100	No
CO	32.5	550	No
SO_X	0.1	150	No
Total PM_{10}	7.9	150	No
Total $PM_{2.5}$	4.1	55	No

Sources: SCAQMD 2015, CalEEMod version 2016.3.2

Notes:

lb/day are summer or winter maxima for planned construction phases

Total PM_{10} / $PM_{2.5}$ comprises fugitive dust plus engine exhaust

Phase I Construction LST Evaluation

Criteria Pollutants	Project Emissions	Threshold	Result
	lb/day	lb/day	
NO_X	7.3	302	Pass
CO	21.7	2,178	Pass
PM_{10}	7.3	40	Pass
$PM_{2.5}$	4.0	10	Pass

Sources: SCAQMD 2008, CalEEMod version 2016.3.2

Notes:

Source-receptor area zone 24 - Perris Valley

5-acre area, 50 meters to receptor

Emissions do not include offsite mobile emissions

Phase II Construction Emissions Summary and Impact Evaluation

Criteria Pollutants	Project Emissions	Threshold	Impact
	lb/day	lb/day	
VOC	43.4	75	No
NO_X	11.6	100	No
CO	34.2	550	No
SO_X	0.1	150	No
Total PM_{10}	2.9	150	No
Total $PM_{2.5}$	0.8	55	No

Sources: SCAQMD 2015, CalEEMod version 2016.3.2

Notes:

lb/day are summer or winter maxima for planned construction phases

Total PM_{10} / $PM_{2.5}$ comprises fugitive dust plus engine exhaust

Phase II Construction LST Evaluation

Criteria Pollutants	Project Emissions	Threshold	Result
	lb/day	lb/day	
NO_X	10.9	302	Pass
CO	29.6	2,178	Pass
PM_{10}	0.5	40	Pass
$PM_{2.5}$	0.1	10	Pass

Sources: SCAQMD 2008, CalEEMod version 2016.3.2

Notes:

Source-receptor area zone 24 - Perris Valley

5-acre area, 50 meters to receptor

Emissions do not include offsite mobile emissions

Phase III Construction Emissions Summary and Impact Evaluation

Criteria Pollutants	Project Emissions	Threshold	Impact
	lb/day	lb/day	
VOC	56.3	75	No
NO_X	9.0	100	No
CO	31.5	550	No
SO_X	0.1	150	No
Total PM_{10}	4.3	150	No
Total $PM_{2.5}$	1.2	55	No

Sources: SCAQMD 2015, CalEEMod version 2016.3.2

Notes:

lb/day are summer or winter maxima for planned construction phases

Total PM_{10} / $PM_{2.5}$ comprises fugitive dust plus engine exhaust

Phase III Construction LST Evaluation

Criteria Pollutants	Project Emissions	Threshold	Result
	lb/day	lb/day	
NO_X	8.4	302	Pass
CO	29.0	2,178	Pass
PM_{10}	0.7	40	Pass
$PM_{2.5}$	0.1	10	Pass

Sources: SCAQMD 2008, CalEEMod version 2016.3.2

Notes:

Source-receptor area zone 24 - Perris Valley

5-acre area, 50 meters to receptor

Emissions do not include offsite mobile emissions

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Existing Operational Emissions Summary

Criteria Pollutants	Existing Emissions
	lb/day
VOC	4.70
NO_X	4.67
CO	8.02
SO_X	0.04
PM_{10}	0.58
$PM_{2.5}$	0.58

Sources: SCAQMD 2015, CalEEMod version 2016.3.2

Notes:

Emissions are from the existing boilers and generators that will be removed due to the project.
lb/day are winter or summer maxima for planned land use

Existing Operational LST Emissions

Criteria Pollutants	Existing Emissions
	lb/day
NO_X	4.67
CO	8.02
PM_{10}	0.58
$PM_{2.5}$	0.58

Sources: SCAQMD 2008, CalEEMod version 2016.3.1

Notes:

Source-receptor area zone 24 - Perris Valley
5-acre area, 50 meters to receptor
Emissions are from the existing boilers and generators that will be removed due to the project.

Phase I Operational Emissions Summary and Impact Evaluation

Criteria Pollutants	Project Emissions	Threshold	Impact
	lb/day	lb/day	
VOC	6.3	55	No
NO_X	13.2	55	No
CO	16.2	550	No
SO_X	0.1	150	No
Total PM_{10}	1.6	150	No
Total $PM_{2.5}$	0.9	55	No

Sources: SCAQMD 2015, CalEEMod version 2016.3.2

Notes:

lb/day are winter or summer maxima for planned land use

Total PM_{10} / $PM_{2.5}$ comprises fugitive dust plus engine exhaust

Phase I Operational LST Evaluation

Criteria Pollutants	Project Emissions	Threshold	Result
	lb/day	lb/day	
NO_X	12.74	302	Pass
CO	14.29	2,178	Pass
Total PM_{10}	0.66	10	Pass
Total $PM_{2.5}$	0.62	3	Pass

Sources: SCAQMD 2008, CalEEMod version 2016.3.1

Notes:

Source-receptor area zone 24 - Perris Valley

5-acre area, 50 meters to receptor

Emissions do not include offsite mobile emissions

Phase II Operational Emissions Summary and Impact Evaluation

Criteria Pollutants	Project Emissions	Threshold	Impact
	lb/day	lb/day	
VOC	21.0	55	No
NO_X	61.4	55	Yes
CO	46.8	550	No
SO_X	0.3	150	No
Total PM_{10}	12.0	150	No
Total $PM_{2.5}$	4.3	55	No

Sources: SCAQMD 2015, CalEEMod version 2016.3.2

Notes:

lb/day are winter or summer maxima for planned land use

Total PM_{10} / $PM_{2.5}$ comprises fugitive dust plus engine exhaust

Phase II Operational LST Evaluation

Criteria Pollutants	Project Emissions	Threshold	Result
	lb/day	lb/day	
NO_X	58.47	302	Pass
CO	32.49	2,178	Pass
Total PM_{10}	2.00	10	Pass
Total $PM_{2.5}$	1.57	3	Pass

Sources: SCAQMD 2008, CalEEMod version 2016.3.1

Notes:

Source-receptor area zone 24 - Perris Valley

5-acre area, 50 meters to receptor

Emissions do not include offsite mobile emissions

Phase III Operational Emissions Summary and Impact Evaluation

Criteria Pollutants	Project Emissions	Threshold	Impact
	lb/day	lb/day	
VOC	15.9	55	No
NO_X	52.7	55	No
CO	36.8	550	No
SO_X	0.2	150	No
Total PM_{10}	11.3	150	No
Total $PM_{2.5}$	3.8	55	No

Sources: SCAQMD 2015, CalEEMod version 2016.3.2

Notes:

lb/day are winter or summer maxima for planned land use

Total PM_{10} / $PM_{2.5}$ comprises fugitive dust plus engine exhaust

Phase III Operational LST Evaluation

Criteria Pollutants	Project Emissions	Threshold	Result
	lb/day	lb/day	
NO_X	50.33	302	Pass
CO	24.69	2,178	Pass
Total PM_{10}	1.58	10	Pass
Total $PM_{2.5}$	1.19	3	Pass

Sources: SCAQMD 2008, CalEEMod version 2016.3.1

Notes:

Source-receptor area zone 24 - Perris Valley

5-acre area, 50 meters to receptor

Emissions do not include offsite mobile emissions

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Total Buildout Phase I-III minus Existing Operational Emissions Summary and Impact Evaluation

Criteria Pollutants	Existing	Phase I	Phase II	Phase III	Total	Threshold	Impact
	Project Emissions (lb/day)					lb/day	
VOC	-4.7	6.3	21.0	15.9	**38.5**	55	No
NO_X	-4.7	13.2	61.4	52.7	**122.6**	55	Yes
CO	-8.0	16.2	46.8	36.8	**91.8**	550	No
SO_X	-0.04	0.1	0.3	0.2	**0.5**	150	No
Total PM_{10}	-0.6	1.6	12.0	11.3	**24.4**	150	No
Total $PM_{2.5}$	-0.6	0.9	4.3	3.8	**8.4**	55	No

Sources: SCAQMD 2015, CalEEMod version 2016.3.2

Notes:

Existing emissions are from the existing boilers and generators that will be removed due to the project.

lb/day are winter or summer maxima for planned land use

Total PM_{10} / $PM_{2.5}$ comprises fugitive dust plus engine exhaust

Total Buildout Phase I-III minus Existing Operational LST Evaluation

Criteria Pollutants	Existing	Phase I	Phase II	Phase III	Total	Threshold	Result
	Project Emissions (lb/day)					lb/day	
NO_X	-4.7	12.7	58.5	50.3	**116.9**	302	Pass
CO	-8.0	14.3	32.5	24.7	**63.5**	2,178	Pass
Total PM_{10}	-0.6	0.7	2.0	1.6	**3.7**	10	Pass
Total $PM_{2.5}$	-0.6	0.6	1.6	1.2	**2.8**	3	Pass

Sources: SCAQMD 2008, CalEEMod version 2016.3.1

Notes:

Source-receptor area zone 24 - Perris Valley

5-acre area, 50 meters to receptor

Existing emissions are from the existing boilers and generators that will be removed due to the project.

Emissions do not include offsite mobile emissions

ATTACHMENT B – CONSTRUCTION AND OPERATIONAL TAC EMISSIONS SUMMARY

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Construction - Maximum Annual DPM Emissions

Construction Activity	Total DPM Emissions (tons)	Average Annual DPM Emissions (lb/yr)
Off-Road	0.05293	6.61625
Hauling	*0.00006*	*0.0075*
Vendor	*0.00038*	*0.0475*
Worker	*0*	*0*
Total Trucks	0.00044	0.0550
Total Emissions	**0.05337**	**6.67125**

Notes:

PM10 exhaust emissions estimated in CalEEMod for onsite travel (mitigated).

Distance traveled (mile)	0.19
Construction duration (years)	16

Phase	Year	DPM Emissions (ton/yr)	DPM Emissions (lb/yr)
Phase I	2020	0.0042	8.34
	2021	0.0069	13.8
	2022	0.0030	5.9
Phase II	2026	0.0062	12.46
	2027	0.0083	16.6
	2028	0.0054	10.74
	2029	0.0006	1.28
Phase III	2032	0.0071	14.26
	2033	0.0068	13.52
	2034	0.0049	9.7
	2035	0.0001	0.22

Construction Volume Source Model Inputs

Parameters	Length (ft)	Length (m)	AERMOD View input (m)	AERMOD View Parameter
Top of Plume Height	6	1.83	1.83	Plume height (PH)
Volume Source Release Height = 0.5 x Top of Plume Height	3	0.91	0.91	Release height
Width of Plume	131.2	40.00	20.00	Plume width (PW)
Initial Sigma Z (vertical dimension) - Top of Plume Height/4.3	1.40	0.43	0.43	Initial vertical dimension
Initial Sigma Y (lateral dimension) - Width of Plume/4.3	30.52	9.30	9.30	Initial lateral dimension

Separate volume sources ground level release
Emissions input as 1 g/s

Truck Volume Source Model Inputs

Parameters	Length (ft)	Length (m)	AERMOD View input (m)	AERMOD View Parameter
VH = vehicle height	13.5	4.11		
VW = vehicle width	8.5	2.59		
1. **Separate** volume sources				
2. Top of Plume Height = 1.7 x VH	22.95	7.00	7.00	Plume height (PH)
3. Volume Source Release Height = 0.5 x Top of Plume Height	11.475	3.50	3.50	Release height
4. Width of Plume = vehicle width	28.2	8.59	4.30	Plume width (PW)
5. Initial Sigma Z - Top of Plume Height/2.15	10.67	3.25	3.25	Initial vertical dimension
6. Initial Sigma Y - Width of Plume/2.15	13.11	4.00	4.00	Initial lateral dimension
Exclusion zone = 2.15 * Sigma Y + 1	2.923	9.6		Nearest receptor must be outside the exclusion zone

Notes:

From EPA - Width of Plume = VW + 6m for single lane roadways / Road Width + 6m for two lane roadways

Reference: EPA Haul Road Workgroup Final Report 2012

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Total Buildout Project TAC Emission Summary

Toxic Air Compound	CAS	Diesel Generator	Natural Gas Boilers and Heaters	Diesel Vehicles	Total
		Annual Emissions (lb/yr)			
DPM	9901	4.29	-	0.60	**4.89**
Benzene	71432	-	1.14	-	**1.14**
Formaldehyde	50000	-	2.42	-	**2.42**
PAHs	1151	-	0.06	-	**0.06**
Ammonia	7664417	-	455.48	-	**455.48**

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Boilers and Heaters

Phase	Existing	Phase I	Phase II	Phase III
Total fuel usage (therm)	217,148	488,000	1,167,000	1,669,000
Per Phase Max Fuel Usage (therm/yr)	217,148	270,852	679,000	502,000
Per Phase Max Fuel Usage (MMBtu/yr)	21,715	27,085	67,900	50,200
Per Phase Max Fuel Usage (kBtu/yr)	21,714,778	27,085,222	67,900,000	50,200,000
Per Phase Max Fuel Usage (mmscf/yr)	21	27	67	49

Pollutant	Emission factor (lb/mmscf)	Phase I	Phase II	Phase III	Total Buildout	Phase I	Phase II	Phase III	Total Buildout
		Annual Emissions (lb/yr)				Daily Emissions (lb/day)			
VOC	5.5	146.0	366.1	270.7	782.9	0.40	1.00	0.74	2.14
NO_X	100	2655.4	6656.9	4921.6	14233.8	7.28	18.24	13.48	39.00
SO_X	0.6	15.9	39.9	29.5	85.4	0.04	0.11	0.08	0.23
CO	84	2230.5	5591.8	4134.1	11956.4	6.11	15.32	11.33	32.76
PM_{10}	7.6	201.8	505.9	374.0	1081.8	0.55	1.39	1.02	2.96

Emission Factors from SCAQMD AER

Toxic Compound	CAS NO.	Emission factor (lb/mmscf)	Phase I	Phase II	Phase III	Total Buildout	Phase I	Phase II	Phase III	Total Buildout
			Annual Emissions (lb/yr)				Hourly Emissions (lb/hr)			
Benzene	71432	0.008	0.212	0.533	0.394	1.139	2.43E-05	6.08E-05	4.49E-05	1.30E-04
Formaldehyde	50000	0.017	0.451	1.132	0.837	2.420	5.15E-05	1.29E-04	9.55E-05	2.76E-04
PAHs	1151	0.0004	0.011	0.027	0.020	0.057	1.21E-06	3.04E-06	2.25E-06	6.50E-06
Ammonia	7664417	3.2	84.97	213.02	157.49	455.48	9.70E-03	2.43E-02	1.80E-02	5.20E-02

Since the boilers are approximately 10 MMBtu/hr and the heaters are approximately 7 MMBtu/hr, the < 10 MMbtu/hr emission factors were selected. Emission Factors from SCAQMD AER.

The PAH value represents a combined default emission factor for toxic compounds within the PAH family.

Ammonia emission factors are for equipment without SNCR or SCR at 3.2 lbs/mmscf.

AERMOD Model Input Parameters

Source ID	Release Height [m]	Diameter [m]	Exit Velocity [m/s]	Exit Temperature [K]	Fuel Gas HHV (MMBTu/hr)
BOIL1	6.40	0.30	17.53	366.49	10.50
BOIL2	6.40	0.30	17.53	366.49	10.50
BOIL3	6.40	0.30	17.53	366.49	10.50
BOIL4	6.40	0.30	17.53	366.49	10.50
BOIL5	6.40	0.30	17.53	366.49	10.50
BOIL6	6.40	0.30	17.53	366.49	10.50
BOIL7	6.40	0.30	17.53	366.49	10.50
BOIL8	6.40	0.30	17.53	366.49	10.50
BOIL9	6.40	0.30	17.53	366.49	10.50
HEAT1	6.40	0.30	11.18	366.49	6.70
HEAT2	6.40	0.30	11.18	366.49	6.70
HEAT3	6.40	0.30	11.18	366.49	6.70
HEAT4	6.40	0.30	11.18	366.49	6.70
HEAT5	6.40	0.30	11.18	366.49	6.70
HEAT6	6.40	0.30	11.18	366.49	6.70
HEAT7	6.40	0.30	11.18	366.49	6.70
HEAT8	6.40	0.30	11.18	366.49	6.70
HEAT9	6.40	0.30	11.18	366.49	6.70

For each phase 3 boilers and 3 heater will be added, for a total of 9 boilers and 9 heaters. 154.76

Natural Gas Boiler & Heater Stack Parameters

Parameters	References/Remarks	Boilers	Heaters	Units
Hourly Heat Input	Client specified	10.50	6.695	mmBTU/hr
Fuel Gas HHV	Natural gas	1020	1020	BTU/cf
Standard Molar Volume	EPA Method 19 (68°F, 20°C	385.3	385.3	dscf/lb-mole
Dry Fd Factor	EPA Method 19 (68°F, 20°C	8,710	8,710	dscf/mmBTU
Wet Fw Factor	EPA Method 19 (68°F, 20°C	10,610	10,610	wscf/mmBTU

Release Parameters	References/Remarks	Boilers	Heaters	Units
Stack Exit Temperature	Typical	200	200	°F
Stack Exit Temperature	Calculated for modeling	366	366	°K
Stack Gas Oxygen Content	Typical	3.00	3.00	percent O_2
Stack Flowrate, dry standard	Calculated for percent O_2	1780	1135	dscf/min
Stack Flowrate, wet standard	Calculated for percent O_2	2168	1382	wscf/min
Stack Flowrate, actual	Calculated for stack temp	2710	1728	wacf/min
Stack Flowrate, actual	Calculated for modeling	1.28	0.82	wacm/sec
Stack Height	Typical	21.00	21.00	feet
Stack Height	Calculated for modeling	6.40	6.40	meters
Stack Diameter	Typical	12.00	12.00	inches
Stack Diameter	Calculated for modeling	0.30	0.30	meters
Stack Velocity	Calculated for modeling	17.5279	11.1761	meters/sec
Stack Velocity	Informational	3450	2200	feet/min

Assumed stack exhausts 6 feet above CUP roof

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Diesel Internal Combustion Emergency Engines

Source	Rating (hp)	Maximum Daily Operations (hrs/day)	Annual Operations (hr/yr)	Load Factor
Generator	2667	0.50	50	0.73

The new generator will be installed in Phase I and will operate in all phases. The existing generator will be moved in Phase I and will operate the same as currently. Load factor from CalEEMod.

Pollutant	DPM Emission Factor (g/hp-hr)	Annual Emissions (lb/yr)	Hourly Emissions (lb/hr)
Generator	0.02	4.288	0.0429

Notes:

DPM = Diesel Particulate Matter

Emission Factors based on EPA final Tier 4 engines

AERMOD Model Input Parameters

Source ID	Release Height [ft]	Diameter [ft]	Flow Rate [acfm]	Exit Temperature [F]	Release Height [m]	Diameter [m]	Exit Velocity [m/s]	Exit Temperature [K]
GEN	20	2	15292.8	752.8	6.096	0.610	24.729	673.59

Note: The stack will have a raincap. Stack parameters provided by client.

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On-site DPM Truck Emissions

Vehicle	Phase I	Phase II	Phase III	Total Buildout
	DPM Emissions (lb/yr)			
Trucks	0.06	0.32	0.22	0.60

Notes:

Mitigated PM10 exhaust emissions estimated in CalEEMod for onsite travel.

Distance traveled (mile) 0.19

Truck Volume Source Model Inputs

Parameters	Length (ft)	Length (m)	AERMOD View input (m)	AERMOD View Parameter
VH = vehicle height	13.5	4.11		
VW = vehicle width	8.5	2.59		
1. **Separate** volume sources				
2. Top of Plume Height = 1.7 x VH	22.95	7.00	7.00	Plume height (PH)
3. Volume Source Release Height = 0.5 x Top of Plume Height	11.475	3.50	3.50	Release height
4. Width of Plume = vehicle width	28.2	8.59	4.30	Plume width (PW)
5. Initial Sigma Z - Top of Plume Height/2.15	10.67	3.25	3.25	Initial vertical dimension
6. Initial Sigma Y - Width of Plume/2.15	13.11	4.00	4.00	Initial lateral dimension
Exclusion zone = 2.15 * Sigma Y + 1	2.923	9.6		Nearest receptor must be outside the exclusion zone

Notes:

From EPA - Width of Plume = VW + 6m for single lane roadways / Road Width + 6m for two lane roadways

Reference: EPA Haul Road Workgroup Final Report 2012

ATTACHMENT C – AERMOD INPUT PARAMETERS

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```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.6.5
** Lakes Environmental Software Inc.
** Date: 3/26/2019
** File: C:\Lakes\AERMOD View\KaiserMV-Constr\KaiserMV-Constr.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
  TITLEONE Kaiser Moreno Valley Construction HRA
  TITLETWO Construction DPM
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  URBANOPT 2189641 Riverside_County
  POLLUTID TAC
  RUNORNOT RUN
  ERRORFIL KaiserMV-Constr.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------
** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = TRUCKS
** DESCRSRC trucks
** PREFIX
** Length of Side = 4.30
** Configuration = Separated
** Emission Rate = 1.0
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 3
** 482898.832, 3750593.149, 473.11, 3.50, 3.94
```

** 482895.270, 3750963.541, 462.85, 3.50, 3.94
** 482820.480, 3750963.541, 461.85, 3.50, 3.94
** ----------

LOCATION L0000001 VOLUME 482898.811 3750595.298 473.27
LOCATION L0000002 VOLUME 482898.729 3750603.777 473.29
LOCATION L0000003 VOLUME 482898.648 3750612.255 472.98
LOCATION L0000004 VOLUME 482898.566 3750620.734 472.54
LOCATION L0000005 VOLUME 482898.485 3750629.212 472.09
LOCATION L0000006 VOLUME 482898.403 3750637.691 471.65
LOCATION L0000007 VOLUME 482898.322 3750646.169 471.23
LOCATION L0000008 VOLUME 482898.240 3750654.648 470.80
LOCATION L0000009 VOLUME 482898.159 3750663.126 470.38
LOCATION L0000010 VOLUME 482898.077 3750671.605 470.01
LOCATION L0000011 VOLUME 482897.996 3750680.083 469.71
LOCATION L0000012 VOLUME 482897.914 3750688.561 469.41
LOCATION L0000013 VOLUME 482897.833 3750697.040 469.11
LOCATION L0000014 VOLUME 482897.751 3750705.518 468.81
LOCATION L0000015 VOLUME 482897.670 3750713.997 468.51
LOCATION L0000016 VOLUME 482897.588 3750722.475 468.21
LOCATION L0000017 VOLUME 482897.507 3750730.954 467.91
LOCATION L0000018 VOLUME 482897.425 3750739.432 467.65
LOCATION L0000019 VOLUME 482897.344 3750747.911 467.39
LOCATION L0000020 VOLUME 482897.262 3750756.389 467.14
LOCATION L0000021 VOLUME 482897.181 3750764.867 466.93
LOCATION L0000022 VOLUME 482897.099 3750773.346 466.76
LOCATION L0000023 VOLUME 482897.017 3750781.824 466.60
LOCATION L0000024 VOLUME 482896.936 3750790.303 466.44
LOCATION L0000025 VOLUME 482896.854 3750798.781 466.27
LOCATION L0000026 VOLUME 482896.773 3750807.260 466.09
LOCATION L0000027 VOLUME 482896.691 3750815.738 465.92
LOCATION L0000028 VOLUME 482896.610 3750824.217 465.75
LOCATION L0000029 VOLUME 482896.528 3750832.695 465.56
LOCATION L0000030 VOLUME 482896.447 3750841.174 465.38
LOCATION L0000031 VOLUME 482896.365 3750849.652 465.20
LOCATION L0000032 VOLUME 482896.284 3750858.130 465.01
LOCATION L0000033 VOLUME 482896.202 3750866.609 464.81
LOCATION L0000034 VOLUME 482896.121 3750875.087 464.61
LOCATION L0000035 VOLUME 482896.039 3750883.566 464.41
LOCATION L0000036 VOLUME 482895.958 3750892.044 464.25
LOCATION L0000037 VOLUME 482895.876 3750900.523 464.09
LOCATION L0000038 VOLUME 482895.795 3750909.001 463.93
LOCATION L0000039 VOLUME 482895.713 3750917.480 463.78
LOCATION L0000040 VOLUME 482895.632 3750925.958 463.65
LOCATION L0000041 VOLUME 482895.550 3750934.436 463.52
LOCATION L0000042 VOLUME 482895.469 3750942.915 463.39
LOCATION L0000043 VOLUME 482895.387 3750951.393 463.26
LOCATION L0000044 VOLUME 482895.305 3750959.872 463.13
LOCATION L0000045 VOLUME 482890.460 3750963.541 463.00

```
  LOCATION L0000046    VOLUME   482881.981 3750963.541 462.87
  LOCATION L0000047    VOLUME   482873.503 3750963.541 462.74
  LOCATION L0000048    VOLUME   482865.024 3750963.541 462.61
  LOCATION L0000049    VOLUME   482856.545 3750963.541 462.48
  LOCATION L0000050    VOLUME   482848.066 3750963.541 462.35
  LOCATION L0000051    VOLUME   482839.587 3750963.541 462.22
  LOCATION L0000052    VOLUME   482831.108 3750963.541 462.10
  LOCATION L0000053    VOLUME   482822.630 3750963.541 462.02
** End of LINE VOLUME Source ID = TRUCKS
  LOCATION CONST1      VOLUME    482723.000  3750975.000    461.000
  LOCATION CONST2      VOLUME    482771.000  3750975.000    461.300
  LOCATION CONST3      VOLUME    482819.000  3750975.000    461.830
  LOCATION CONST4      VOLUME    482867.000  3750975.000    462.450
  LOCATION CONST5      VOLUME    482723.000  3750927.000    461.480
  LOCATION CONST6      VOLUME    482771.000  3750927.000    462.190
  LOCATION CONST7      VOLUME    482819.000  3750927.000    462.610
  LOCATION CONST8      VOLUME    482867.000  3750927.000    463.200
  LOCATION CONST9      VOLUME    482723.000  3750879.000    462.590
  LOCATION CONST10     VOLUME    482771.000  3750879.000    462.970
  LOCATION CONST11     VOLUME    482819.000  3750879.000    463.460
  LOCATION CONST12     VOLUME    482867.000  3750879.000    464.030
  LOCATION CONST13     VOLUME    482540.000  3750639.000    468.410
  LOCATION CONST14     VOLUME    482540.000  3750689.000    466.840
  LOCATION CONST15     VOLUME    482540.000  3750739.000    465.340
  LOCATION CONST16     VOLUME    482635.000  3750630.000    469.490
  LOCATION CONST17     VOLUME    482740.000  3750630.000    469.520
  LOCATION CONST18     VOLUME    482801.000  3750630.000    470.310
  LOCATION CONST19     VOLUME    482856.000  3750630.000    471.240
  LOCATION CONST20     VOLUME    482857.713  3750761.780    466.450
  LOCATION CONST21     VOLUME    482856.880  3750821.195    465.170
  LOCATION CONST22     VOLUME    482766.086  3750823.285    464.060
  LOCATION CONST23     VOLUME    482766.927  3750768.060    465.450
** Source Parameters **
** LINE VOLUME Source ID = TRUCKS
  SRCPARAM L0000001    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000002    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000003    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000004    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000005    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000006    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000007    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000008    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000009    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000010    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000011    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000012    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000013    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000014    0.0188679245    3.50    3.94    3.26
```

```
  SRCPARAM L0000015    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000016    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000017    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000018    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000019    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000020    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000021    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000022    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000023    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000024    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000025    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000026    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000027    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000028    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000029    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000030    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000031    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000032    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000033    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000034    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000035    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000036    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000037    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000038    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000039    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000040    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000041    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000042    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000043    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000044    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000045    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000046    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000047    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000048    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000049    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000050    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000051    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000052    0.0188679245    3.50    3.94    3.26
  SRCPARAM L0000053    0.0188679245    3.50    3.94    3.26
** ------------------------------------------------------------------
  SRCPARAM CONST1      0.0434782609    0.914   9.302   0.425
  SRCPARAM CONST2      0.0434782609    0.914   9.302   0.425
  SRCPARAM CONST3      0.0434782609    0.914   9.302   0.425
  SRCPARAM CONST4      0.0434782609    0.914   9.302   0.425
  SRCPARAM CONST5      0.0434782609    0.914   9.302   0.425
  SRCPARAM CONST6      0.0434782609    0.914   9.302   0.425
  SRCPARAM CONST7      0.0434782609    0.914   9.302   0.425
  SRCPARAM CONST8      0.0434782609    0.914   9.302   0.425
```

```
  SRCPARAM CONST9      0.0434782609    0.914    9.302    0.425
  SRCPARAM CONST10     0.0434782609    0.914    9.302    0.425
  SRCPARAM CONST11     0.0434782609    0.914    9.302    0.425
  SRCPARAM CONST12     0.0434782609    0.914    9.302    0.425
  SRCPARAM CONST13     0.0434782609    0.914    9.302    0.425
  SRCPARAM CONST14     0.0434782609    0.914    9.302    0.425
  SRCPARAM CONST15     0.0434782609    0.914    9.302    0.425
  SRCPARAM CONST16     0.0434782609    0.914    9.302    0.425
  SRCPARAM CONST17     0.0434782609    0.914    9.302    0.425
  SRCPARAM CONST18     0.0434782609    0.914    9.302    0.425
  SRCPARAM CONST19     0.0434782609    0.914    9.302    0.425
  SRCPARAM CONST20     0.0434782609    0.914    9.302    0.425
  SRCPARAM CONST21     0.0434782609    0.914    9.302    0.425
  SRCPARAM CONST22     0.0434782609    0.914    9.302    0.425
  SRCPARAM CONST23     0.0434782609    0.914    9.302    0.425
**
** No Building Downwash **
**
  URBANSRC ALL
  SRCGROUP trucks   L0000001 L0000002 L0000003 L0000004 L0000005 L0000006
  SRCGROUP trucks   L0000007 L0000008 L0000009 L0000010 L0000011 L0000012
  SRCGROUP trucks   L0000013 L0000014 L0000015 L0000016 L0000017 L0000018
  SRCGROUP trucks   L0000019 L0000020 L0000021 L0000022 L0000023 L0000024
  SRCGROUP trucks   L0000025 L0000026 L0000027 L0000028 L0000029 L0000030
  SRCGROUP trucks   L0000031 L0000032 L0000033 L0000034 L0000035 L0000036
  SRCGROUP trucks   L0000037 L0000038 L0000039 L0000040 L0000041 L0000042
  SRCGROUP trucks   L0000043 L0000044 L0000045 L0000046 L0000047 L0000048
  SRCGROUP trucks   L0000049 L0000050 L0000051 L0000052 L0000053
  SRCGROUP constr   CONST1 CONST2 CONST3 CONST4 CONST5 CONST6 CONST7 CONST8
  SRCGROUP constr   CONST9 CONST10 CONST11 CONST12 CONST13 CONST14 CONST15
  SRCGROUP constr   CONST16 CONST17 CONST18 CONST19 CONST20 CONST21 CONST22
  SRCGROUP constr   CONST23
  SRCGROUP ALL
SO FINISHED
**
**********************************************
** AERMOD Receptor Pathway
**********************************************
**
**
RE STARTING
  INCLUDED KaiserMV-Constr.rou
RE FINISHED
**
**********************************************
** AERMOD Meteorology Pathway
**********************************************
**
```

```
**
ME STARTING
  SURFFILE met\PERI_v9.SFC
  PROFFILE met\PERI_v9.PFL
  SURFDATA 3171 2010
  UAIRDATA 3190 2010
  SITEDATA 99999 2010
  PROFBASE 442.0 METERS
ME FINISHED
**
**********************************************
** AERMOD Output Pathway
**********************************************
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 1 1ST
** Auto-Generated Plotfiles
  PLOTFILE 1 ALL 1ST KAISERMV-CONSTR.AD\01H1GALL.PLT 31
  PLOTFILE 1 trucks 1ST KAISERMV-CONSTR.AD\01H1G001.PLT 32
  PLOTFILE 1 constr 1ST KAISERMV-CONSTR.AD\01H1G002.PLT 33
  PLOTFILE PERIOD ALL KAISERMV-CONSTR.AD\PE00GALL.PLT 34
  PLOTFILE PERIOD trucks KAISERMV-CONSTR.AD\PE00G001.PLT 35
  PLOTFILE PERIOD constr KAISERMV-CONSTR.AD\PE00G002.PLT 36
  SUMMFILE KaiserMV-Constr.sum
OU FINISHED
**
**********************************************
** Project Parameters
**********************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.6.5
** Lakes Environmental Software Inc.
** Date: 3/25/2019
** File: C:\Lakes\AERMOD View\KaiserMV\KaiserMV.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
  TITLEONE Kaiser Moreno Valley Full Buildout Operations HRA
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  URBANOPT 2189641 Riverside_County
  POLLUTID TAC
  RUNORNOT RUN
  ERRORFIL KaiserMV.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION GEN        POINTCAP   482873.349  3750903.140     463.660
** DESCRSRC emergency generator
  LOCATION BOIL1      POINT      482837.000  3750951.000     462.360
** DESCRSRC boiler
  LOCATION BOIL2      POINT      482848.000  3750951.000     462.540
** DESCRSRC boiler
  LOCATION BOIL3      POINT      482859.000  3750951.000     462.720
** DESCRSRC boiler
  LOCATION BOIL4      POINT      482837.000  3750940.000     462.530
** DESCRSRC boiler
  LOCATION BOIL5      POINT      482848.000  3750940.000     462.710
** DESCRSRC boiler
  LOCATION BOIL6      POINT      482859.000  3750940.000     462.890
```

```
** DESCRSRC boiler
  LOCATION BOIL7      POINT     482837.000  3750929.000     462.740
** DESCRSRC boiler
  LOCATION BOIL8      POINT     482848.000  3750929.000     462.890
** DESCRSRC boiler
  LOCATION BOIL9      POINT     482859.000  3750929.000     463.050
** DESCRSRC boiler
  LOCATION HEAT1      POINT     482837.000  3750913.000     463.040
** DESCRSRC heater
  LOCATION HEAT2      POINT     482848.000  3750913.000     463.160
** DESCRSRC heater
  LOCATION HEAT3      POINT     482859.000  3750913.000     463.280
** DESCRSRC heater
  LOCATION HEAT4      POINT     482837.000  3750905.000     463.190
** DESCRSRC heater
  LOCATION HEAT5      POINT     482848.000  3750905.000     463.310
** DESCRSRC heater
  LOCATION HEAT6      POINT     482859.000  3750905.000     463.430
** DESCRSRC heater
  LOCATION HEAT7      POINT     482837.000  3750897.000     463.330
** DESCRSRC heater
  LOCATION HEAT8      POINT     482848.000  3750897.000     463.460
** DESCRSRC heater
  LOCATION HEAT9      POINT     482859.000  3750897.000     463.590
** DESCRSRC heater
** ----------------------------------------------------------------------
** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = TRUCKS
** DESCRSRC trucks
** PREFIX
** Length of Side = 4.30
** Configuration = Separated
** Emission Rate = 1.0
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 4
** 482898.832, 3750593.149, 473.11, 3.50, 4.00
** 482895.270, 3750963.541, 462.85, 3.50, 4.00
** 482820.480, 3750963.541, 461.85, 3.50, 4.00
** 482819.886, 3750880.440, 463.41, 3.50, 4.00
** ----------------------------------------------------------------------
  LOCATION L0000001    VOLUME   482898.811 3750595.298 473.27
  LOCATION L0000002    VOLUME   482898.728 3750603.888 473.29
  LOCATION L0000003    VOLUME   482898.646 3750612.478 472.97
  LOCATION L0000004    VOLUME   482898.563 3750621.068 472.52
  LOCATION L0000005    VOLUME   482898.481 3750629.658 472.07
  LOCATION L0000006    VOLUME   482898.398 3750638.248 471.62
  LOCATION L0000007    VOLUME   482898.315 3750646.837 471.19
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LOCATION L0000008 VOLUME 482898.233 3750655.427 470.76
LOCATION L0000009 VOLUME 482898.150 3750664.017 470.33
LOCATION L0000010 VOLUME 482898.068 3750672.607 469.97
LOCATION L0000011 VOLUME 482897.985 3750681.197 469.67
LOCATION L0000012 VOLUME 482897.902 3750689.786 469.37
LOCATION L0000013 VOLUME 482897.820 3750698.376 469.06
LOCATION L0000014 VOLUME 482897.737 3750706.966 468.76
LOCATION L0000015 VOLUME 482897.655 3750715.556 468.45
LOCATION L0000016 VOLUME 482897.572 3750724.146 468.15
LOCATION L0000017 VOLUME 482897.489 3750732.735 467.86
LOCATION L0000018 VOLUME 482897.407 3750741.325 467.60
LOCATION L0000019 VOLUME 482897.324 3750749.915 467.33
LOCATION L0000020 VOLUME 482897.242 3750758.505 467.07
LOCATION L0000021 VOLUME 482897.159 3750767.095 466.89
LOCATION L0000022 VOLUME 482897.077 3750775.685 466.72
LOCATION L0000023 VOLUME 482896.994 3750784.274 466.55
LOCATION L0000024 VOLUME 482896.911 3750792.864 466.39
LOCATION L0000025 VOLUME 482896.829 3750801.454 466.21
LOCATION L0000026 VOLUME 482896.746 3750810.044 466.04
LOCATION L0000027 VOLUME 482896.664 3750818.634 465.86
LOCATION L0000028 VOLUME 482896.581 3750827.223 465.68
LOCATION L0000029 VOLUME 482896.498 3750835.813 465.50
LOCATION L0000030 VOLUME 482896.416 3750844.403 465.31
LOCATION L0000031 VOLUME 482896.333 3750852.993 465.13
LOCATION L0000032 VOLUME 482896.251 3750861.583 464.92
LOCATION L0000033 VOLUME 482896.168 3750870.172 464.72
LOCATION L0000034 VOLUME 482896.085 3750878.762 464.52
LOCATION L0000035 VOLUME 482896.003 3750887.352 464.34
LOCATION L0000036 VOLUME 482895.920 3750895.942 464.18
LOCATION L0000037 VOLUME 482895.838 3750904.532 464.02
LOCATION L0000038 VOLUME 482895.755 3750913.121 463.86
LOCATION L0000039 VOLUME 482895.672 3750921.711 463.72
LOCATION L0000040 VOLUME 482895.590 3750930.301 463.58
LOCATION L0000041 VOLUME 482895.507 3750938.891 463.45
LOCATION L0000042 VOLUME 482895.425 3750947.481 463.32
LOCATION L0000043 VOLUME 482895.342 3750956.071 463.19
LOCATION L0000044 VOLUME 482894.150 3750963.541 463.06
LOCATION L0000045 VOLUME 482885.560 3750963.541 462.92
LOCATION L0000046 VOLUME 482876.970 3750963.541 462.79
LOCATION L0000047 VOLUME 482868.380 3750963.541 462.66
LOCATION L0000048 VOLUME 482859.790 3750963.541 462.53
LOCATION L0000049 VOLUME 482851.199 3750963.541 462.40
LOCATION L0000050 VOLUME 482842.609 3750963.541 462.27
LOCATION L0000051 VOLUME 482834.019 3750963.541 462.14
LOCATION L0000052 VOLUME 482825.429 3750963.541 462.04
LOCATION L0000053 VOLUME 482820.454 3750959.900 462.05
LOCATION L0000054 VOLUME 482820.392 3750951.310 462.17
LOCATION L0000055 VOLUME 482820.331 3750942.720 462.30

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  LOCATION L0000056    VOLUME   482820.269 3750934.130 462.48
  LOCATION L0000057    VOLUME   482820.208 3750925.540 462.65
  LOCATION L0000058    VOLUME   482820.147 3750916.950 462.82
  LOCATION L0000059    VOLUME   482820.085 3750908.360 462.97
  LOCATION L0000060    VOLUME   482820.024 3750899.770 463.11
  LOCATION L0000061    VOLUME   482819.963 3750891.180 463.25
  LOCATION L0000062    VOLUME   482819.901 3750882.590 463.39
** End of LINE VOLUME Source ID = TRUCKS
** Source Parameters **
  SRCPARAM GEN          1.0    6.096   673.594  24.72865    0.610
  SRCPARAM BOIL1        1.0    6.401   366.493  17.52792    0.305
  SRCPARAM BOIL2        1.0    6.401   366.493  17.52792    0.305
  SRCPARAM BOIL3        1.0    6.401   366.493  17.52792    0.305
  SRCPARAM BOIL4        1.0    6.401   366.493  17.52792    0.305
  SRCPARAM BOIL5        1.0    6.401   366.493  17.52792    0.305
  SRCPARAM BOIL6        1.0    6.401   366.493  17.52792    0.305
  SRCPARAM BOIL7        1.0    6.401   366.493  17.52792    0.305
  SRCPARAM BOIL8        1.0    6.401   366.493  17.52792    0.305
  SRCPARAM BOIL9        1.0    6.401   366.493  17.52792    0.305
  SRCPARAM HEAT1        1.0    6.401   366.493  11.17614    0.305
  SRCPARAM HEAT2        1.0    6.401   366.493  11.17614    0.305
  SRCPARAM HEAT3        1.0    6.401   366.493  11.17614    0.305
  SRCPARAM HEAT4        1.0    6.401   366.493  11.17614    0.305
  SRCPARAM HEAT5        1.0    6.401   366.493  11.17614    0.305
  SRCPARAM HEAT6        1.0    6.401   366.493  11.17614    0.305
  SRCPARAM HEAT7        1.0    6.401   366.493  11.17614    0.305
  SRCPARAM HEAT8        1.0    6.401   366.493  11.17614    0.305
  SRCPARAM HEAT9        1.0    6.401   366.493  11.17614    0.305
** LINE VOLUME Source ID = TRUCKS
  SRCPARAM L0000001    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000002    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000003    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000004    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000005    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000006    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000007    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000008    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000009    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000010    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000011    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000012    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000013    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000014    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000015    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000016    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000017    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000018    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000019    0.0161290323    3.50    4.00    3.26
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  SRCPARAM L0000020    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000021    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000022    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000023    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000024    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000025    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000026    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000027    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000028    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000029    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000030    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000031    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000032    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000033    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000034    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000035    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000036    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000037    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000038    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000039    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000040    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000041    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000042    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000043    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000044    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000045    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000046    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000047    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000048    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000049    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000050    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000051    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000052    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000053    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000054    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000055    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000056    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000057    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000058    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000059    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000060    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000061    0.0161290323    3.50    4.00    3.26
  SRCPARAM L0000062    0.0161290323    3.50    4.00    3.26
** ------------------------------------------------------------------

** Building Downwash **
  BUILDHGT GEN         42.06   42.06   42.06   42.06   42.06   42.06
  BUILDHGT GEN         42.06   42.06   42.06   42.06   42.06   42.06
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BUILDHGT GEN	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT GEN	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT GEN	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT GEN	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL1	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL1	42.06	42.06	42.06	42.06	14.63	14.63
BUILDHGT BOIL1	14.63	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL1	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL1	42.06	42.06	42.06	42.06	14.63	14.63
BUILDHGT BOIL1	14.63	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL2	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL2	42.06	42.06	42.06	14.63	14.63	14.63
BUILDHGT BOIL2	14.63	14.63	42.06	42.06	42.06	42.06
BUILDHGT BOIL2	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL2	42.06	42.06	42.06	14.63	14.63	14.63
BUILDHGT BOIL2	14.63	14.63	42.06	42.06	42.06	42.06
BUILDHGT BOIL3	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL3	42.06	42.06	42.06	14.63	14.63	14.63
BUILDHGT BOIL3	14.63	7.01	7.01	42.06	42.06	42.06
BUILDHGT BOIL3	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL3	42.06	42.06	42.06	14.63	14.63	14.63
BUILDHGT BOIL3	14.63	7.01	7.01	42.06	42.06	42.06
BUILDHGT BOIL4	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL4	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL4	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL4	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL4	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL4	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL5	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL5	42.06	42.06	42.06	42.06	42.06	14.63
BUILDHGT BOIL5	14.63	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL5	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL5	42.06	42.06	42.06	42.06	42.06	14.63
BUILDHGT BOIL5	14.63	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL6	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL6	42.06	42.06	42.06	42.06	42.06	14.63
BUILDHGT BOIL6	14.63	7.01	42.06	42.06	42.06	42.06
BUILDHGT BOIL6	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL6	42.06	42.06	42.06	42.06	42.06	14.63
BUILDHGT BOIL6	14.63	7.01	42.06	42.06	42.06	42.06
BUILDHGT BOIL7	42.06	42.06	42.06	42.06	42.06	42.06

BUILDHGT BOIL7	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL7	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL7	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL7	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL7	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL8	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL8	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL8	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL8	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL8	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL8	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL9	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL9	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL9	14.63	14.63	42.06	42.06	42.06	42.06
BUILDHGT BOIL9	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL9	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT BOIL9	14.63	14.63	42.06	42.06	42.06	42.06
BUILDHGT HEAT1	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT1	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT1	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT1	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT1	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT1	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT2	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT2	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT2	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT2	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT2	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT2	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT3	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT3	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT3	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT3	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT3	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT3	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT4	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT4	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT4	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT4	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT4	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT4	42.06	42.06	42.06	42.06	42.06	42.06

BUILDHGT HEAT5	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT5	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT5	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT5	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT5	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT5	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT6	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT6	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT6	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT6	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT6	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT6	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT7	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT7	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT7	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT7	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT7	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT7	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT8	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT8	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT8	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT8	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT8	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT8	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT9	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT9	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT9	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT9	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT9	42.06	42.06	42.06	42.06	42.06	42.06
BUILDHGT HEAT9	42.06	42.06	42.06	42.06	42.06	42.06
BUILDWID GEN	153.06	48.60	56.62	62.92	67.31	69.65
BUILDWID GEN	159.57	160.20	155.97	157.06	153.37	145.03
BUILDWID GEN	132.28	133.31	144.35	151.00	153.07	150.48
BUILDWID GEN	153.06	48.60	56.62	62.92	67.31	69.65
BUILDWID GEN	159.57	160.20	155.97	157.06	153.37	145.03
BUILDWID GEN	132.28	133.31	144.35	151.00	153.07	150.48
BUILDWID BOIL1	153.06	48.60	56.62	133.30	143.92	154.08
BUILDWID BOIL1	159.57	160.20	155.97	157.06	162.99	165.01
BUILDWID BOIL1	162.02	133.31	144.35	151.00	153.07	150.48
BUILDWID BOIL1	153.06	151.00	144.34	133.30	143.92	154.08
BUILDWID BOIL1	159.57	160.20	155.97	157.06	162.99	165.01
BUILDWID BOIL1	162.02	133.31	144.35	151.00	153.07	150.48

BUILDWID BOIL2 153.06 48.60 56.62 133.30 143.92 154.08
BUILDWID BOIL2 159.57 160.20 155.97 156.02 162.99 165.01
BUILDWID BOIL2 162.02 154.10 144.35 151.00 153.07 150.48
BUILDWID BOIL2 153.06 151.00 144.34 133.30 143.92 154.08
BUILDWID BOIL2 159.57 160.20 155.97 156.02 162.99 165.01
BUILDWID BOIL2 162.02 154.10 144.35 151.00 153.07 150.48

BUILDWID BOIL3 153.06 48.60 56.62 62.92 143.92 154.08
BUILDWID BOIL3 159.57 160.20 155.97 156.02 162.99 165.01
BUILDWID BOIL3 162.02 76.19 69.70 151.00 153.07 150.48
BUILDWID BOIL3 153.06 151.00 144.34 133.30 143.92 154.08
BUILDWID BOIL3 159.57 160.20 155.97 156.02 162.99 165.01
BUILDWID BOIL3 162.02 76.19 69.70 151.00 153.07 150.48

BUILDWID BOIL4 153.06 48.60 56.62 133.30 143.92 154.08
BUILDWID BOIL4 159.57 160.20 155.97 157.06 153.37 145.03
BUILDWID BOIL4 132.28 133.31 144.35 151.00 153.07 150.48
BUILDWID BOIL4 153.06 151.00 144.34 133.30 143.92 154.08
BUILDWID BOIL4 159.57 160.20 155.97 157.06 153.37 145.03
BUILDWID BOIL4 132.28 133.31 144.35 151.00 153.07 150.48

BUILDWID BOIL5 153.06 48.60 56.62 62.92 143.92 154.08
BUILDWID BOIL5 159.57 160.20 155.97 157.06 153.37 165.01
BUILDWID BOIL5 162.02 133.31 144.35 151.00 153.07 150.48
BUILDWID BOIL5 153.06 151.00 144.34 133.30 143.92 154.08
BUILDWID BOIL5 159.57 160.20 155.97 157.06 153.37 165.01
BUILDWID BOIL5 162.02 133.31 144.35 151.00 153.07 150.48

BUILDWID BOIL6 153.06 48.60 56.62 62.92 143.92 154.08
BUILDWID BOIL6 159.57 160.20 155.97 157.06 153.37 165.01
BUILDWID BOIL6 162.02 76.19 144.35 151.00 153.07 150.48
BUILDWID BOIL6 153.06 151.00 144.34 133.30 143.92 154.08
BUILDWID BOIL6 159.57 160.20 155.97 157.06 153.37 165.01
BUILDWID BOIL6 162.02 76.19 144.35 151.00 153.07 150.48

BUILDWID BOIL7 153.06 48.60 56.62 62.92 143.92 154.08
BUILDWID BOIL7 159.57 160.20 155.97 157.06 153.37 145.03
BUILDWID BOIL7 132.28 133.31 144.35 151.00 153.07 150.48
BUILDWID BOIL7 153.06 151.00 56.62 62.92 143.92 154.08
BUILDWID BOIL7 159.57 160.20 155.97 157.06 153.37 145.03
BUILDWID BOIL7 132.28 133.31 144.35 151.00 153.07 150.48

BUILDWID BOIL8 153.06 48.60 56.62 62.92 143.92 154.08
BUILDWID BOIL8 159.57 160.20 155.97 157.06 153.37 145.03
BUILDWID BOIL8 132.28 133.31 144.35 151.00 153.07 150.48
BUILDWID BOIL8 153.06 151.00 144.34 62.92 143.92 154.08
BUILDWID BOIL8 159.57 160.20 155.97 157.06 153.37 145.03

BUILDWID BOIL8 132.28 133.31 144.35 151.00 153.07 150.48

BUILDWID BOIL9 153.06 48.60 56.62 62.92 143.92 154.08
BUILDWID BOIL9 159.57 160.20 155.97 157.06 153.37 145.03
BUILDWID BOIL9 162.02 154.10 144.35 151.00 153.07 150.48
BUILDWID BOIL9 153.06 151.00 144.34 133.30 143.92 154.08
BUILDWID BOIL9 159.57 160.20 155.97 157.06 153.37 145.03
BUILDWID BOIL9 162.02 154.10 144.35 151.00 153.07 150.48

BUILDWID HEAT1 153.06 48.60 56.62 62.92 143.92 154.08
BUILDWID HEAT1 159.57 160.20 155.97 157.06 153.37 145.03
BUILDWID HEAT1 132.28 133.31 144.35 151.00 153.07 150.48
BUILDWID HEAT1 153.06 48.60 56.62 62.92 143.92 154.08
BUILDWID HEAT1 159.57 160.20 155.97 157.06 153.37 145.03
BUILDWID HEAT1 132.28 133.31 144.35 151.00 153.07 150.48

BUILDWID HEAT2 153.06 48.60 56.62 62.92 67.31 154.08
BUILDWID HEAT2 159.57 160.20 155.97 157.06 153.37 145.03
BUILDWID HEAT2 132.28 133.31 144.35 151.00 153.07 150.48
BUILDWID HEAT2 153.06 48.60 56.62 62.92 67.31 154.08
BUILDWID HEAT2 159.57 160.20 155.97 157.06 153.37 145.03
BUILDWID HEAT2 132.28 133.31 144.35 151.00 153.07 150.48

BUILDWID HEAT3 153.06 48.60 56.62 62.92 67.31 154.08
BUILDWID HEAT3 159.57 160.20 155.97 157.06 153.37 145.03
BUILDWID HEAT3 132.28 133.31 144.35 151.00 153.07 150.48
BUILDWID HEAT3 153.06 48.60 56.62 62.92 67.31 154.08
BUILDWID HEAT3 159.57 160.20 155.97 157.06 153.37 145.03
BUILDWID HEAT3 132.28 133.31 144.35 151.00 153.07 150.48

BUILDWID HEAT4 153.06 48.60 56.62 62.92 67.31 154.08
BUILDWID HEAT4 159.57 160.20 155.97 157.06 153.37 145.03
BUILDWID HEAT4 132.28 133.31 144.35 151.00 153.07 150.48
BUILDWID HEAT4 153.06 48.60 56.62 62.92 67.31 154.08
BUILDWID HEAT4 159.57 160.20 155.97 157.06 153.37 145.03
BUILDWID HEAT4 132.28 133.31 144.35 151.00 153.07 150.48

BUILDWID HEAT5 153.06 48.60 56.62 62.92 67.31 154.08
BUILDWID HEAT5 159.57 160.20 155.97 157.06 153.37 145.03
BUILDWID HEAT5 132.28 133.31 144.35 151.00 153.07 150.48
BUILDWID HEAT5 153.06 48.60 56.62 62.92 67.31 154.08
BUILDWID HEAT5 159.57 160.20 155.97 157.06 153.37 145.03
BUILDWID HEAT5 132.28 133.31 144.35 151.00 153.07 150.48

BUILDWID HEAT6 153.06 48.60 56.62 62.92 67.31 69.65
BUILDWID HEAT6 159.57 160.20 155.97 157.06 153.37 145.03
BUILDWID HEAT6 132.28 133.31 144.35 151.00 153.07 150.48
BUILDWID HEAT6 153.06 48.60 56.62 62.92 67.31 69.65

BUILDWID HEAT6 159.57 160.20 155.97 157.06 153.37 145.03
BUILDWID HEAT6 132.28 133.31 144.35 151.00 153.07 150.48

BUILDWID HEAT7 153.06 48.60 56.62 62.92 67.31 154.08
BUILDWID HEAT7 159.57 160.20 155.97 157.06 153.37 145.03
BUILDWID HEAT7 132.28 133.31 144.35 151.00 153.07 150.48
BUILDWID HEAT7 153.06 48.60 56.62 62.92 67.31 154.08
BUILDWID HEAT7 159.57 160.20 155.97 157.06 153.37 145.03
BUILDWID HEAT7 132.28 133.31 144.35 151.00 153.07 150.48

BUILDWID HEAT8 153.06 48.60 56.62 62.92 67.31 69.65
BUILDWID HEAT8 159.57 160.20 155.97 157.06 153.37 145.03
BUILDWID HEAT8 132.28 133.31 144.35 151.00 153.07 150.48
BUILDWID HEAT8 153.06 48.60 56.62 62.92 67.31 69.65
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BUILDWID HEAT9 153.06 48.60 56.62 62.92 67.31 69.65
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BUILDLEN GEN 157.06 69.88 69.65 67.31 62.92 56.62
BUILDLEN GEN 151.00 153.07 150.48 153.06 151.00 144.34
BUILDLEN GEN 133.30 143.92 154.08 159.57 160.20 155.97
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BUILDLEN BOIL1 157.06 69.88 69.65 132.28 133.31 144.35
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BUILDLEN BOIL1 221.36 143.92 154.08 159.57 160.20 155.97
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BUILDLEN BOIL2 157.06 69.88 69.65 132.28 133.31 144.35
BUILDLEN BOIL2 151.00 153.07 150.48 190.62 207.27 217.62
BUILDLEN BOIL2 221.36 218.37 154.08 159.57 160.20 155.97
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BUILDLEN HEAT9 157.06 69.88 69.65 67.31 62.92 56.62
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BUILDLEN HEAT9 133.30 143.92 154.08 159.57 160.20 155.97
BUILDLEN HEAT9 157.06 69.88 69.65 67.31 62.92 56.62
BUILDLEN HEAT9 151.00 153.07 150.48 153.06 151.00 144.34
BUILDLEN HEAT9 133.30 143.92 154.08 159.57 160.20 155.97

XBADJ GEN -136.23 -144.44 -148.27 -147.59 -142.42 -132.93
XBADJ GEN -157.15 -153.66 -145.50 -137.85 -126.02 -110.35
XBADJ GEN -91.33 -83.44 -73.58 -61.47 -47.50 -32.09
XBADJ GEN -20.83 74.57 78.62 80.28 79.50 76.31
XBADJ GEN 6.15 0.60 -4.98 -15.21 -24.98 -33.99
XBADJ GEN -41.97 -60.48 -80.51 -98.09 -112.70 -123.88

XBADJ BOIL1 -177.05 -176.99 -171.54 -160.88 -152.77 -148.32
XBADJ BOIL1 -139.37 -126.17 -109.15 -93.74 -131.76 -128.22
XBADJ BOIL1 -120.78 -23.41 -13.95 -4.07 5.94 15.77
XBADJ BOIL1 19.99 23.61 26.51 28.61 19.46 3.97
XBADJ BOIL1 -11.64 -26.89 -41.33 -59.32 -75.51 -89.40
XBADJ BOIL1 -100.58 -120.50 -140.13 -155.50 -166.14 -171.74

XBADJ BOIL2 -178.96 -180.75 -177.04 -167.96 -161.20 -157.85
XBADJ BOIL2 -149.70 -137.01 -120.15 -142.13 -142.10 -137.74
XBADJ BOIL2 -129.20 -116.74 -19.45 -7.83 4.03 15.77
XBADJ BOIL2 21.91 27.37 32.01 35.68 27.89 13.50
XBADJ BOIL2 -1.30 -16.06 -30.33 -48.49 -65.17 -79.88
XBADJ BOIL2 -92.15 -101.63 -134.63 -151.74 -164.23 -171.74

XBADJ BOIL3 -180.87 -184.51 -182.54 -175.03 -169.62 -167.37
XBADJ BOIL3 -160.04 -147.84 -131.15 -152.96 -152.43 -147.27
XBADJ BOIL3 -137.63 -26.88 -23.54 -11.59 2.12 15.77
XBADJ BOIL3 23.82 31.14 37.51 42.75 36.31 23.02
XBADJ BOIL3 9.04 -5.23 -19.33 -37.65 -54.84 -70.35
XBADJ BOIL3 -83.73 -53.48 -58.56 -147.98 -162.32 -171.74

XBADJ BOIL4 -166.22 -166.65 -162.01 -152.46 -145.70 -142.82
XBADJ BOIL4 -135.60 -124.26 -109.15 -95.65 -79.25 -60.44
XBADJ BOIL4 -39.79 -31.84 -23.48 -14.40 -4.89 4.77
XBADJ BOIL4 9.16 13.28 16.99 20.18 12.39 -1.53
XBADJ BOIL4 -15.40 -28.80 -41.33 -57.41 -71.75 -83.90
XBADJ BOIL4 -93.51 -112.08 -130.61 -145.16 -155.31 -160.74

XBADJ	BOIL5	-168.13	-170.41	-167.51	-159.53	-154.13	-152.35
XBADJ	BOIL5	-145.94	-135.10	-120.15	-106.49	-89.59	-143.24
XBADJ	BOIL5	-136.27	-38.91	-28.98	-18.17	-6.80	4.77
XBADJ	BOIL5	11.07	17.04	22.49	27.25	20.82	8.00
XBADJ	BOIL5	-5.06	-17.97	-30.33	-46.58	-61.41	-74.38
XBADJ	BOIL5	-85.08	-105.01	-125.11	-141.40	-153.40	-160.74
XBADJ	BOIL6	-170.04	-174.17	-173.01	-166.60	-162.55	-161.87
XBADJ	BOIL6	-156.28	-145.93	-131.15	-117.32	-99.93	-152.77
XBADJ	BOIL6	-144.70	-35.31	-34.48	-21.93	-8.71	4.77
XBADJ	BOIL6	12.98	20.80	27.99	34.32	29.24	17.52
XBADJ	BOIL6	5.27	-7.14	-19.33	-35.74	-51.07	-64.85
XBADJ	BOIL6	-76.66	-45.06	-119.61	-137.64	-151.49	-160.74
XBADJ	BOIL7	-155.39	-156.31	-152.49	-144.03	-138.63	-137.32
XBADJ	BOIL7	-131.84	-122.35	-109.15	-97.56	-83.01	-65.94
XBADJ	BOIL7	-46.87	-40.27	-33.01	-24.74	-15.72	-6.23
XBADJ	BOIL7	-1.67	2.94	82.84	76.72	5.32	-7.03
XBADJ	BOIL7	-19.16	-30.71	-41.33	-55.50	-67.98	-78.40
XBADJ	BOIL7	-86.44	-103.65	-121.08	-134.83	-144.48	-149.74
XBADJ	BOIL8	-157.30	-160.07	-157.99	-151.10	-147.06	-146.85
XBADJ	BOIL8	-142.18	-133.19	-120.15	-108.40	-93.35	-75.47
XBADJ	BOIL8	-55.29	-47.34	-38.51	-28.50	-17.63	-6.23
XBADJ	BOIL8	0.24	6.70	12.96	83.79	13.75	2.50
XBADJ	BOIL8	-8.82	-19.88	-30.33	-44.67	-57.65	-68.88
XBADJ	BOIL8	-78.01	-96.58	-115.58	-131.06	-142.57	-149.74
XBADJ	BOIL9	-159.21	-163.84	-163.49	-158.17	-155.48	-156.37
XBADJ	BOIL9	-152.51	-144.02	-131.15	-119.23	-103.69	-84.99
XBADJ	BOIL9	-151.77	-140.66	-44.01	-32.27	-19.54	-6.23
XBADJ	BOIL9	2.15	10.46	18.46	25.89	22.17	12.02
XBADJ	BOIL9	1.51	-9.05	-19.33	-33.83	-47.31	-59.35
XBADJ	BOIL9	-69.59	-77.71	-110.08	-127.30	-140.66	-149.74
XBADJ	HEAT1	-139.63	-141.28	-138.63	-131.77	-128.35	-129.32
XBADJ	HEAT1	-126.37	-119.58	-109.15	-100.34	-88.49	-73.94
XBADJ	HEAT1	-57.15	-52.52	-46.86	-39.78	-31.48	-22.23
XBADJ	HEAT1	-17.43	71.40	68.98	64.46	-4.97	-15.03
XBADJ	HEAT1	-24.63	-33.49	-41.33	-52.72	-62.51	-70.40
XBADJ	HEAT1	-76.15	-91.39	-107.22	-119.79	-128.72	-133.74
XBADJ	HEAT2	-141.54	-145.04	-144.13	-138.85	-129.34	-138.85
XBADJ	HEAT2	-136.71	-130.41	-120.15	-111.18	-98.82	-83.47
XBADJ	HEAT2	-65.58	-59.59	-52.36	-43.54	-33.39	-22.23
XBADJ	HEAT2	-15.52	75.16	74.48	71.54	66.42	-5.50
XBADJ	HEAT2	-14.30	-22.66	-30.33	-41.89	-52.18	-60.88
XBADJ	HEAT2	-67.73	-84.32	-101.72	-116.03	-126.81	-133.74

XBADJ	HEAT3	-143.45	-148.80	-149.63	-145.92	-137.77	-148.37
XBADJ	HEAT3	-147.04	-141.24	-131.15	-122.01	-109.16	-92.99
XBADJ	HEAT3	-74.00	-66.67	-57.86	-47.30	-35.30	-22.23
XBADJ	HEAT3	-13.61	78.92	79.98	78.61	74.84	4.02
XBADJ	HEAT3	-3.96	-11.82	-19.33	-31.06	-41.84	-51.35
XBADJ	HEAT3	-59.30	-77.25	-96.22	-112.27	-124.90	-133.74
XBADJ	HEAT4	-131.75	-133.76	-131.70	-125.65	-115.77	-125.32
XBADJ	HEAT4	-123.63	-118.19	-109.15	-101.73	-91.22	-77.94
XBADJ	HEAT4	-62.29	-58.65	-53.79	-47.29	-39.36	-30.23
XBADJ	HEAT4	-25.31	63.88	62.05	58.34	52.85	-19.03
XBADJ	HEAT4	-27.37	-34.88	-41.33	-51.33	-59.78	-66.40
XBADJ	HEAT4	-71.01	-85.27	-100.29	-112.27	-120.84	-125.74
XBADJ	HEAT5	-133.66	-137.52	-137.20	-132.72	-124.20	-134.85
XBADJ	HEAT5	-133.97	-129.02	-120.15	-112.56	-101.56	-87.47
XBADJ	HEAT5	-70.72	-65.72	-59.29	-51.06	-41.27	-30.23
XBADJ	HEAT5	-23.40	67.64	67.55	65.41	61.28	-9.50
XBADJ	HEAT5	-17.03	-24.05	-30.33	-40.50	-49.44	-56.88
XBADJ	HEAT5	-62.59	-78.20	-94.79	-108.51	-118.93	-125.74
XBADJ	HEAT6	-135.57	-141.28	-142.70	-139.79	-132.62	-121.43
XBADJ	HEAT6	-144.31	-139.85	-131.15	-123.40	-111.90	-96.99
XBADJ	HEAT6	-79.15	-72.79	-64.79	-54.82	-43.18	-30.23
XBADJ	HEAT6	-21.49	71.41	73.05	72.48	69.70	64.81
XBADJ	HEAT6	-6.70	-13.21	-19.33	-29.67	-39.10	-47.35
XBADJ	HEAT6	-54.16	-71.13	-89.29	-104.75	-117.02	-125.74
XBADJ	HEAT7	-123.87	-126.24	-124.78	-119.52	-110.63	-121.32
XBADJ	HEAT7	-120.90	-116.80	-109.15	-103.12	-93.96	-81.94
XBADJ	HEAT7	-67.43	-64.78	-60.72	-54.81	-47.24	-38.23
XBADJ	HEAT7	-33.18	56.36	55.12	52.21	47.71	-23.03
XBADJ	HEAT7	-30.11	-36.27	-41.33	-49.94	-57.04	-62.40
XBADJ	HEAT7	-65.87	-79.14	-93.37	-104.76	-112.96	-117.74
XBADJ	HEAT8	-125.78	-130.00	-130.28	-126.59	-119.06	-107.90
XBADJ	HEAT8	-131.23	-127.63	-120.15	-113.95	-104.30	-91.47
XBADJ	HEAT8	-75.86	-71.85	-66.22	-58.57	-49.15	-38.23
XBADJ	HEAT8	-31.27	60.13	60.62	59.28	56.13	51.28
XBADJ	HEAT8	-19.77	-25.44	-30.33	-39.11	-46.70	-52.88
XBADJ	HEAT8	-57.44	-72.07	-87.87	-100.99	-111.05	-117.74
XBADJ	HEAT9	-127.69	-133.77	-135.78	-133.66	-127.48	-117.43
XBADJ	HEAT9	-141.57	-138.46	-131.15	-124.79	-114.63	-100.99
XBADJ	HEAT9	-84.29	-78.92	-71.72	-62.34	-51.06	-38.23
XBADJ	HEAT9	-29.36	63.89	66.12	66.35	64.56	60.81
XBADJ	HEAT9	-9.43	-14.60	-19.33	-28.28	-36.37	-43.35

XBADJ	HEAT9	-49.02	-65.00	-82.37	-97.23	-109.14	-117.74
YBADJ	GEN	61.32	32.25	12.75	-7.15	-26.82	-45.68
YBADJ	GEN	-18.31	-32.60	-45.90	-57.70	-67.76	-75.75
YBADJ	GEN	-81.45	-83.20	-83.70	-81.65	-77.13	-70.26
YBADJ	GEN	-61.32	-32.25	-12.75	7.15	26.82	45.68
YBADJ	GEN	18.31	32.60	45.90	57.70	67.76	75.75
YBADJ	GEN	81.45	83.20	83.70	81.65	77.13	70.26
YBADJ	BOIL1	17.21	-18.27	-42.66	-33.93	-48.55	-63.09
YBADJ	BOIL1	-75.72	-86.04	-93.76	-98.52	-56.94	-65.25
YBADJ	BOIL1	-71.57	-86.12	-76.15	-63.86	-49.64	-33.91
YBADJ	BOIL1	-17.21	0.01	17.23	33.93	48.55	63.09
YBADJ	BOIL1	75.72	86.04	93.76	98.52	56.94	65.25
YBADJ	BOIL1	71.57	86.12	76.15	63.86	49.64	33.91
YBADJ	BOIL2	28.04	-7.94	-33.14	-25.50	-41.47	-57.59
YBADJ	BOIL2	-71.95	-84.13	-93.76	-48.81	-60.70	-70.75
YBADJ	BOIL2	-78.64	-84.15	-85.67	-74.20	-60.47	-44.91
YBADJ	BOIL2	-28.04	-10.33	7.70	25.50	41.47	57.59
YBADJ	BOIL2	71.95	84.13	93.76	48.81	60.70	70.75
YBADJ	BOIL2	78.64	84.15	85.67	74.20	60.47	44.91
YBADJ	BOIL3	38.88	2.40	-23.61	-48.90	-34.40	-52.09
YBADJ	BOIL3	-68.19	-82.22	-93.76	-50.72	-64.46	-76.25
YBADJ	BOIL3	-85.71	-25.40	-22.71	-84.54	-71.31	-55.91
YBADJ	BOIL3	-38.88	-20.66	-1.82	17.08	34.40	52.09
YBADJ	BOIL3	68.19	82.22	93.76	50.72	64.46	76.25
YBADJ	BOIL3	85.71	25.40	22.71	84.54	71.31	55.91
YBADJ	BOIL4	19.12	-14.51	-37.16	-26.86	-40.12	-53.56
YBADJ	BOIL4	-65.38	-75.21	-82.76	-87.69	-89.96	-89.50
YBADJ	BOIL4	-86.32	-79.05	-70.65	-60.10	-47.73	-33.91
YBADJ	BOIL4	-19.12	-3.75	11.73	26.86	40.12	53.56
YBADJ	BOIL4	65.38	75.21	82.76	87.69	89.96	89.50
YBADJ	BOIL4	86.32	79.05	70.65	60.10	47.73	33.91
YBADJ	BOIL5	29.95	-4.18	-27.64	-50.26	-33.05	-48.06
YBADJ	BOIL5	-61.62	-73.30	-82.76	-89.60	-93.72	-61.22
YBADJ	BOIL5	-70.22	-87.47	-80.17	-70.44	-58.56	-44.91
YBADJ	BOIL5	-29.95	-14.09	2.20	18.43	33.05	48.06
YBADJ	BOIL5	61.62	73.30	82.76	89.60	93.72	61.22
YBADJ	BOIL5	70.22	87.47	80.17	70.44	58.56	44.91
YBADJ	BOIL6	40.79	6.16	-18.11	-41.83	-25.98	-42.56
YBADJ	BOIL6	-57.86	-71.39	-82.76	-91.51	-97.49	-66.72
YBADJ	BOIL6	-77.29	-18.33	-89.70	-80.78	-69.40	-55.91
YBADJ	BOIL6	-40.79	-24.43	-7.32	10.00	25.98	42.56

YBADJ	BOIL6	57.86	71.39	82.76	91.51	97.49	66.72
YBADJ	BOIL6	77.29	18.33	89.70	80.78	69.40	55.91
YBADJ	BOIL7	21.03	-10.75	-31.66	-51.61	-31.69	-44.04
YBADJ	BOIL7	-55.04	-64.38	-71.76	-76.86	-79.63	-79.97
YBADJ	BOIL7	-77.89	-71.97	-65.15	-56.34	-45.82	-33.91
YBADJ	BOIL7	-21.03	-7.51	31.66	51.61	31.69	44.04
YBADJ	BOIL7	55.04	64.38	71.76	76.86	79.63	79.97
YBADJ	BOIL7	77.89	71.97	65.15	56.34	45.82	33.91
YBADJ	BOIL8	31.86	-0.41	-22.14	-43.19	-24.62	-38.54
YBADJ	BOIL8	-51.28	-62.47	-71.76	-78.77	-83.39	-85.47
YBADJ	BOIL8	-84.96	-80.40	-74.67	-66.68	-56.65	-44.91
YBADJ	BOIL8	-31.86	-17.85	-3.30	43.19	24.62	38.54
YBADJ	BOIL8	51.28	62.47	71.76	78.77	83.39	85.47
YBADJ	BOIL8	84.96	80.40	74.67	66.68	56.65	44.91
YBADJ	BOIL9	42.70	9.92	-12.61	-34.76	-17.55	-33.04
YBADJ	BOIL9	-47.52	-60.56	-71.76	-80.68	-87.15	-90.97
YBADJ	BOIL9	-68.86	-78.43	-84.20	-77.01	-67.49	-55.91
YBADJ	BOIL9	-42.70	-28.19	-12.82	2.93	17.55	33.04
YBADJ	BOIL9	47.52	60.56	71.76	80.68	87.15	90.97
YBADJ	BOIL9	68.86	78.43	84.20	77.01	67.49	55.91
YBADJ	HEAT1	23.81	-5.28	-23.66	-41.33	-19.44	-30.18
YBADJ	HEAT1	-40.01	-48.62	-55.76	-61.10	-64.59	-66.12
YBADJ	HEAT1	-65.64	-61.69	-57.15	-50.87	-43.04	-33.91
YBADJ	HEAT1	-23.81	5.28	23.66	41.33	19.44	30.18
YBADJ	HEAT1	40.01	48.62	55.76	61.10	64.59	66.12
YBADJ	HEAT1	65.64	61.69	57.15	50.87	43.04	33.91
YBADJ	HEAT2	34.64	5.06	-14.14	-32.90	-50.67	-24.68
YBADJ	HEAT2	-36.25	-46.71	-55.76	-63.01	-68.35	-71.62
YBADJ	HEAT2	-72.71	-70.12	-66.67	-61.20	-53.88	-44.91
YBADJ	HEAT2	-34.64	-5.06	14.14	32.90	50.67	24.68
YBADJ	HEAT2	36.25	46.71	55.76	63.01	68.35	71.62
YBADJ	HEAT2	72.71	70.12	66.67	61.20	53.88	44.91
YBADJ	HEAT3	45.48	15.40	-4.61	-24.48	-43.60	-19.18
YBADJ	HEAT3	-32.48	-44.80	-55.76	-64.92	-72.12	-77.12
YBADJ	HEAT3	-79.78	-78.54	-76.20	-71.54	-64.71	-55.91
YBADJ	HEAT3	-45.48	-15.40	4.61	24.48	43.60	19.18
YBADJ	HEAT3	32.48	44.80	55.76	64.92	72.12	77.12
YBADJ	HEAT3	79.78	78.54	76.20	71.54	64.71	55.91
YBADJ	HEAT4	25.20	-2.54	-19.66	-36.19	-51.61	-23.25
YBADJ	HEAT4	-32.49	-40.74	-47.76	-53.22	-57.07	-59.19
YBADJ	HEAT4	-59.51	-56.55	-53.15	-48.13	-41.65	-33.91

```
YBADJ   HEAT4      -25.20   2.54   19.66   36.19   51.61   23.25
YBADJ   HEAT4       32.49  40.74   47.76   53.22   57.07   59.19
YBADJ   HEAT4       59.51  56.55   53.15   48.13   41.65   33.91

YBADJ   HEAT5       36.03   7.79  -10.14  -27.76  -44.54  -17.75
YBADJ   HEAT5      -28.73 -38.83  -47.76  -55.13  -60.84  -64.69
YBADJ   HEAT5      -66.58 -64.97  -62.67  -58.47  -52.49  -44.91
YBADJ   HEAT5      -36.03  -7.79   10.14   27.76   44.54   17.75
YBADJ   HEAT5       28.73  38.83   47.76   55.13   60.84   64.69
YBADJ   HEAT5       66.58  64.97   62.67   58.47   52.49   44.91

YBADJ   HEAT6       46.87  18.13   -0.61  -19.33  -37.47  -54.47
YBADJ   HEAT6      -24.97 -36.92  -47.76  -57.04  -64.60  -70.19
YBADJ   HEAT6      -73.65 -73.40  -72.20  -68.80  -63.32  -55.91
YBADJ   HEAT6      -46.87 -18.13    0.61   19.33   37.47   54.47
YBADJ   HEAT6       24.97  36.92   47.76   57.04   64.60   70.19
YBADJ   HEAT6       73.65  73.40   72.20   68.80   63.32   55.91

YBADJ   HEAT7       26.59   0.19  -15.66  -31.04  -45.48  -16.32
YBADJ   HEAT7      -24.97 -32.86  -39.76  -45.34  -49.56  -52.26
YBADJ   HEAT7      -53.38 -51.41  -49.15  -45.40  -40.26  -33.91
YBADJ   HEAT7      -26.59  -0.19   15.66   31.04   45.48   16.32
YBADJ   HEAT7       24.97  32.86   39.76   45.34   49.56   52.26
YBADJ   HEAT7       53.38  51.41   49.15   45.40   40.26   33.91

YBADJ   HEAT8       37.42  10.53   -6.14  -22.62  -38.41  -53.04
YBADJ   HEAT8      -21.21 -30.95  -39.76  -47.25  -53.32  -57.76
YBADJ   HEAT8      -60.45 -59.83  -58.67  -55.73  -51.10  -44.91
YBADJ   HEAT8      -37.42 -10.53    6.14   22.62   38.41   53.04
YBADJ   HEAT8       21.21  30.95   39.76   47.25   53.32   57.76
YBADJ   HEAT8       60.45  59.83   58.67   55.73   51.10   44.91

YBADJ   HEAT9       48.25  20.87    3.39  -14.19  -31.34  -47.54
YBADJ   HEAT9      -17.45 -29.04  -39.76  -49.16  -57.08  -63.26
YBADJ   HEAT9      -67.52 -68.26  -68.20  -66.07  -61.93  -55.91
YBADJ   HEAT9      -48.25 -20.87   -3.39   14.19   31.34   47.54
YBADJ   HEAT9       17.45  29.04   39.76   49.16   57.08   63.26
YBADJ   HEAT9       67.52  68.26   68.20   66.07   61.93   55.91

URBANSRC ALL
SRCGROUP BOIL1   BOIL1
SRCGROUP BOIL2   BOIL2
SRCGROUP BOIL3   BOIL3
SRCGROUP BOIL4   BOIL4
SRCGROUP BOIL5   BOIL5
SRCGROUP BOIL6   BOIL6
SRCGROUP BOIL7   BOIL7
SRCGROUP BOIL8   BOIL8
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  SRCGROUP GEN      GEN
  SRCGROUP HEAT1    HEAT1
  SRCGROUP HEAT2    HEAT2
  SRCGROUP HEAT3    HEAT3
  SRCGROUP HEAT4    HEAT4
  SRCGROUP HEAT5    HEAT5
  SRCGROUP HEAT6    HEAT6
  SRCGROUP HEAT7    HEAT7
  SRCGROUP HEAT8    HEAT8
  SRCGROUP HEAT9    HEAT9
  SRCGROUP TRUCKS   L0000001 L0000002 L0000003 L0000004 L0000005 L0000006
  SRCGROUP TRUCKS   L0000007 L0000008 L0000009 L0000010 L0000011 L0000012
  SRCGROUP TRUCKS   L0000013 L0000014 L0000015 L0000016 L0000017 L0000018
  SRCGROUP TRUCKS   L0000019 L0000020 L0000021 L0000022 L0000023 L0000024
  SRCGROUP TRUCKS   L0000025 L0000026 L0000027 L0000028 L0000029 L0000030
  SRCGROUP TRUCKS   L0000031 L0000032 L0000033 L0000034 L0000035 L0000036
  SRCGROUP TRUCKS   L0000037 L0000038 L0000039 L0000040 L0000041 L0000042
  SRCGROUP TRUCKS   L0000043 L0000044 L0000045 L0000046 L0000047 L0000048
  SRCGROUP TRUCKS   L0000049 L0000050 L0000051 L0000052 L0000053 L0000054
  SRCGROUP TRUCKS   L0000055 L0000056 L0000057 L0000058 L0000059 L0000060
  SRCGROUP TRUCKS   L0000061 L0000062
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** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
  INCLUDED KaiserMV.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
  SURFFILE met\PERI_v9.SFC
  PROFFILE met\PERI_v9.PFL
  SURFDATA 3171 2010
  UAIRDATA 3190 2010
  SITEDATA 99999 2010
  PROFBASE 442.0 METERS
ME FINISHED
**
**************************************
```

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** AERMOD Output Pathway
**************************************
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 1 1ST
** Auto-Generated Plotfiles
  PLOTFILE 1 BOIL1 1ST KaiserMV.AD\01H1G001.PLT 31
  PLOTFILE 1 BOIL2 1ST KaiserMV.AD\01H1G002.PLT 32
  PLOTFILE 1 BOIL3 1ST KaiserMV.AD\01H1G003.PLT 33
  PLOTFILE 1 BOIL4 1ST KaiserMV.AD\01H1G004.PLT 34
  PLOTFILE 1 BOIL5 1ST KaiserMV.AD\01H1G005.PLT 35
  PLOTFILE 1 BOIL6 1ST KaiserMV.AD\01H1G006.PLT 36
  PLOTFILE 1 BOIL7 1ST KaiserMV.AD\01H1G007.PLT 37
  PLOTFILE 1 BOIL8 1ST KaiserMV.AD\01H1G008.PLT 38
  PLOTFILE 1 BOIL9 1ST KaiserMV.AD\01H1G009.PLT 39
  PLOTFILE 1 GEN 1ST KaiserMV.AD\01H1G010.PLT 40
  PLOTFILE 1 HEAT1 1ST KaiserMV.AD\01H1G011.PLT 41
  PLOTFILE 1 HEAT2 1ST KaiserMV.AD\01H1G012.PLT 42
  PLOTFILE 1 HEAT3 1ST KaiserMV.AD\01H1G013.PLT 43
  PLOTFILE 1 HEAT4 1ST KaiserMV.AD\01H1G014.PLT 44
  PLOTFILE 1 HEAT5 1ST KaiserMV.AD\01H1G015.PLT 45
  PLOTFILE 1 HEAT6 1ST KaiserMV.AD\01H1G016.PLT 46
  PLOTFILE 1 HEAT7 1ST KaiserMV.AD\01H1G017.PLT 47
  PLOTFILE 1 HEAT8 1ST KaiserMV.AD\01H1G018.PLT 48
  PLOTFILE 1 HEAT9 1ST KaiserMV.AD\01H1G019.PLT 49
  PLOTFILE 1 TRUCKS 1ST KaiserMV.AD\01H1G020.PLT 50
  PLOTFILE PERIOD BOIL1 KaiserMV.AD\PE00G001.PLT 51
  PLOTFILE PERIOD BOIL2 KaiserMV.AD\PE00G002.PLT 52
  PLOTFILE PERIOD BOIL3 KaiserMV.AD\PE00G003.PLT 53
  PLOTFILE PERIOD BOIL4 KaiserMV.AD\PE00G004.PLT 54
  PLOTFILE PERIOD BOIL5 KaiserMV.AD\PE00G005.PLT 55
  PLOTFILE PERIOD BOIL6 KaiserMV.AD\PE00G006.PLT 56
  PLOTFILE PERIOD BOIL7 KaiserMV.AD\PE00G007.PLT 57
  PLOTFILE PERIOD BOIL8 KaiserMV.AD\PE00G008.PLT 58
  PLOTFILE PERIOD BOIL9 KaiserMV.AD\PE00G009.PLT 59
  PLOTFILE PERIOD GEN KaiserMV.AD\PE00G010.PLT 60
  PLOTFILE PERIOD HEAT1 KaiserMV.AD\PE00G011.PLT 61
  PLOTFILE PERIOD HEAT2 KaiserMV.AD\PE00G012.PLT 62
  PLOTFILE PERIOD HEAT3 KaiserMV.AD\PE00G013.PLT 63
  PLOTFILE PERIOD HEAT4 KaiserMV.AD\PE00G014.PLT 64
  PLOTFILE PERIOD HEAT5 KaiserMV.AD\PE00G015.PLT 65
  PLOTFILE PERIOD HEAT6 KaiserMV.AD\PE00G016.PLT 66
  PLOTFILE PERIOD HEAT7 KaiserMV.AD\PE00G017.PLT 67
  PLOTFILE PERIOD HEAT8 KaiserMV.AD\PE00G018.PLT 68
  PLOTFILE PERIOD HEAT9 KaiserMV.AD\PE00G019.PLT 69
  PLOTFILE PERIOD TRUCKS KaiserMV.AD\PE00G020.PLT 70
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** Project Parameters
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** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
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ATTACHMENT D – HARP2 RESULTS SUMMARY REPORTS

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HARP Summary Operations

HARP Project Summary Report 4/2/2019 11:58:57 AM

PROJECT INFORMATION
HARP Version: 19044
Project Name: KAISERMV
Project Output Directory: C:\HARP2\KAISERMV
HARP Database: NA

FACILITY INFORMATION
Origin
X (m):0
Y (m):0
Zone:1
No. of Sources:0
No. of Buildings:0

EMISSION INVENTORY
No. of Pollutants:74
No. of Background Pollutants:0

Emissions

ScrID	StkID	ProID	PolID	PolAbbrev	Multi	Annual Ems (lbs/yr)	MaxHr Ems (lbs/hr)	MWAF
GEN	0	0	9901	DieselExhPM	1	4.288	0	1
BOIL1	0	0	71432	Benzene	1	0.077	8.82E-06	1
BOIL1	0	0	50000	Formaldehyde	1	0.164	1.87E-05	1
BOIL1	0	0	1151	PAHs-w/o	1	0.004	4.41E-07	1
BOIL1	0	0	7664417	NH3	1	30.904	0.00353	1
BOIL2	0	0	71432	Benzene	1	0.077	8.82E-06	1
BOIL2	0	0	50000	Formaldehyde	1	0.164	1.87E-05	1
BOIL2	0	0	1151	PAHs-w/o	1	0.004	4.41E-07	1
BOIL2	0	0	7664417	NH3	1	30.904	0.00353	1
BOIL3	0	0	71432	Benzene	1	0.077	8.82E-06	1
BOIL3	0	0	50000	Formaldehyde	1	0.164	1.87E-05	1
BOIL3	0	0	1151	PAHs-w/o	1	0.004	4.41E-07	1
BOIL3	0	0	7664417	NH3	1	30.904	0.00353	1
BOIL4	0	0	71432	Benzene	1	0.077	8.82E-06	1
BOIL4	0	0	50000	Formaldehyde	1	0.164	1.87E-05	1
BOIL4	0	0	1151	PAHs-w/o	1	0.004	4.41E-07	1
BOIL4	0	0	7664417	NH3	1	30.904	0.00353	1

BOIL5	0	0	71432	Benzene	1	0.077	8.82E-06	1
BOIL5	0	0	50000	Formaldehyde	1	0.164	1.87E-05	1
BOIL5	0	0	1151	PAHs-w/o	1	0.004	4.41E-07	1
BOIL5	0	0	7664417	NH3	1	30.904	0.00353	1
BOIL6	0	0	71432	Benzene	1	0.077	8.82E-06	1
BOIL6	0	0	50000	Formaldehyde	1	0.164	1.87E-05	1
BOIL6	0	0	1151	PAHs-w/o	1	0.004	4.41E-07	1
BOIL6	0	0	7664417	NH3	1	30.904	0.00353	1
BOIL7	0	0	71432	Benzene	1	0.077	8.82E-06	1
BOIL7	0	0	50000	Formaldehyde	1	0.164	1.87E-05	1
BOIL7	0	0	1151	PAHs-w/o	1	0.004	4.41E-07	1
BOIL7	0	0	7664417	NH3	1	30.904	0.00353	1
BOIL8	0	0	71432	Benzene	1	0.077	8.82E-06	1
BOIL8	0	0	50000	Formaldehyde	1	0.164	1.87E-05	1
BOIL8	0	0	1151	PAHs-w/o	1	0.004	4.41E-07	1
BOIL8	0	0	7664417	NH3	1	30.904	0.00353	1
BOIL9	0	0	71432	Benzene	1	0.077	8.82E-06	1
BOIL9	0	0	50000	Formaldehyde	1	0.164	1.87E-05	1
BOIL9	0	0	1151	PAHs-w/o	1	0.004	4.41E-07	1
BOIL9	0	0	7664417	NH3	1	30.904	0.00353	1
HEAT1	0	0	71432	Benzene	1	0.049	5.62E-06	1
HEAT1	0	0	50000	Formaldehyde	1	0.105	1.2E-05	1
HEAT1	0	0	1151	PAHs-w/o	1	0.002	2.81E-07	1
HEAT1	0	0	7664417	NH3	1	19.705	0.00225	1
HEAT2	0	0	71432	Benzene	1	0.049	5.62E-06	1
HEAT2	0	0	50000	Formaldehyde	1	0.105	1.2E-05	1
HEAT2	0	0	1151	PAHs-w/o	1	0.002	2.81E-07	1
HEAT2	0	0	7664417	NH3	1	19.705	0.00225	1
HEAT3	0	0	71432	Benzene	1	0.049	5.62E-06	1
HEAT3	0	0	50000	Formaldehyde	1	0.105	1.2E-05	1
HEAT3	0	0	1151	PAHs-w/o	1	0.002	2.81E-07	1
HEAT3	0	0	7664417	NH3	1	19.705	0.00225	1
HEAT4	0	0	71432	Benzene	1	0.049	5.62E-06	1
HEAT4	0	0	50000	Formaldehyde	1	0.105	1.2E-05	1
HEAT4	0	0	1151	PAHs-w/o	1	0.002	2.81E-07	1
HEAT4	0	0	7664417	NH3	1	19.705	0.00225	1
HEAT5	0	0	71432	Benzene	1	0.049	5.62E-06	1
HEAT5	0	0	50000	Formaldehyde	1	0.105	1.2E-05	1
HEAT5	0	0	1151	PAHs-w/o	1	0.002	2.81E-07	1
HEAT5	0	0	7664417	NH3	1	19.705	0.00225	1
HEAT6	0	0	71432	Benzene	1	0.049	5.62E-06	1
HEAT6	0	0	50000	Formaldehyde	1	0.105	1.2E-05	1
HEAT6	0	0	1151	PAHs-w/o	1	0.002	2.81E-07	1
HEAT6	0	0	7664417	NH3	1	19.705	0.00225	1

HEAT7	0	0	71432	Benzene	1	0.049	5.62E-06	1
HEAT7	0	0	50000	Formaldehyde	1	0.105	1.2E-05	1
HEAT7	0	0	1151	PAHs-w/o	1	0.002	2.81E-07	1
HEAT7	0	0	7664417	NH3	1	19.705	0.00225	1
HEAT8	0	0	71432	Benzene	1	0.049	5.62E-06	1
HEAT8	0	0	50000	Formaldehyde	1	0.105	1.2E-05	1
HEAT8	0	0	1151	PAHs-w/o	1	0.002	2.81E-07	1
HEAT8	0	0	7664417	NH3	1	19.705	0.00225	1
HEAT9	0	0	71432	Benzene	1	0.049	5.62E-06	1
HEAT9	0	0	50000	Formaldehyde	1	0.105	1.2E-05	1
HEAT9	0	0	1151	PAHs-w/o	1	0.002	2.81E-07	1
HEAT9	0	0	7664417	NH3	1	19.705	0.00225	1
TRUCKS	0	0	9901	DieselExhPM	1	0.6	0	1

Background

PolID	PolAbbrev	Conc (ug/m^3)	MWAF

Ground level concentration files (\glc\)

1151MAXHR.txt
1151PER.txt
50000MAXHR.txt
50000PER.txt
71432MAXHR.txt
71432PER.txt
7664417MAXHR.txt
7664417PER.txt
9901MAXHR.txt
9901PER.txt

POLLUTANT HEALTH INFORMATION
Health Database: C:\HARP2\Tables\HEALTH17320.mdb
Health Table Version: HEALTH18232
Official: True

PolID	PolAbbrev	InhCancer	OralCancer	AcuteREL	InhChronicREL	OralChronicREL	InhChronic8HRREL
9901	DieselExhPM	1.1			5		
71432	Benzene	0.1		27	3		3
50000	Formaldehyde	0.021		55	9		9
1151	PAHs-w/o	3.9		12			

7664417 NH3 3200 200

AIR DISPERSION MODELING INFORMATION
Versions used in HARP. All executables were obtained from USEPA's Support Center for Regulatory Atmospheric Modeling website (http://www.epa.gov/scram001/)
AERMOD: 18081
AERMAP: 18081
BPIPPRM: 04274
AERPLOT: 13329

METEOROLOGICAL INFORMATION
Version:
Surface File:
Profile File:
Surface Station:
Upper Station:
On-Site Station:

LIST OF AIR DISPERSION FILES
AERMOD Input File:
AERMOD Output File:
AERMOD Error File:
Plotfile list

_____
01H1G001.PLT
01H1G002.PLT
01H1G003.PLT
01H1G004.PLT
01H1G005.PLT
01H1G006.PLT
01H1G007.PLT
01H1G008.PLT
01H1G009.PLT
01H1G010.PLT
01H1G011.PLT
01H1G012.PLT
01H1G013.PLT
01H1G014.PLT
01H1G015.PLT
01H1G016.PLT
01H1G017.PLT
01H1G018.PLT
01H1G019.PLT
01H1G020.PLT

PE00G001.PLT
PE00G002.PLT
PE00G003.PLT
PE00G004.PLT
PE00G005.PLT
PE00G006.PLT
PE00G007.PLT
PE00G008.PLT
PE00G009.PLT
PE00G010.PLT
PE00G011.PLT
PE00G012.PLT
PE00G013.PLT
PE00G014.PLT
PE00G015.PLT
PE00G016.PLT
PE00G017.PLT
PE00G018.PLT
PE00G019.PLT
PE00G020.PLT

LIST OF RISK ASSESSMENT FILES
Health risk analysis files (\hra\)

_____
KaiserMV-CancerRisk.csv
KaiserMV-CancerRiskSumByRec.csv
KaiserMV-CancerRiskSumByRecBySrc.csv
KaiserMV-GLCList.csv
KaiserMV-HRAInput.hra
KaiserMV-NCAcuteRisk.csv
KaiserMV-NCAcuteRiskSumByRec.csv
KaiserMV-NCAcuteRiskSumByRecBySrc.csv
KaiserMV-NCChronicRisk.csv
KaiserMV-NCChronicRiskSumByRec.csv
KaiserMV-NCChronicRiskSumByRecBySrc.csv
KaiserMV-Output.txt
KaiserMV-PathwayRec.csv
KaiserMV-PolDB.csv
KaiserMV-Wkr-8hr-GLCList.csv
KaiserMV-Wkr-8hr-HRAInput.hra
KaiserMV-Wkr-8hr-NCChronic8HrRisk.csv
KaiserMV-Wkr-8hr-NCChronic8HrRiskSumByRec.csv
KaiserMV-Wkr-8hr-NCChronic8HrRiskSumByRecBySrc.csv
KaiserMV-Wkr-8hr-Output.txt

KaiserMV-Wkr-8hr-PathwayRec.csv
KaiserMV-Wkr-8hr-PolDB.csv
KaiserMV-Wkr-CancerRisk.csv
KaiserMV-Wkr-CancerRiskSumByRec.csv
KaiserMV-Wkr-CancerRiskSumByRecBySrc.csv
KaiserMV-Wkr-GLCList.csv
KaiserMV-Wkr-HRAInput.hra
KaiserMV-Wkr-Output.txt
KaiserMV-Wkr-PathwayRec.csv
KaiserMV-Wkr-PolDB.csv

Spatial averaging files (\sa\)

HARP Output Operations
HARP2 - HRACalc (dated 19044) 4/2/2019 11:56:00 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 30

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 14
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False

Egg: False

****
INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Warm

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS
Tier2 not used.

****

Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\HARP2\KAISERMV\hra\KaiserMV-CancerRisk.csv
Cancer risk total by receptor saved to: C:\HARP2\KAISERMV\hra\KaiserMV-CancerRiskSumByRec.csv
Cancer risk total by receptor and source saved to: C:\HARP2\KAISERMV\hra\CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\HARP2\KAISERMV\hra\KaiserMV-NCChronicRisk.csv

Chronic risk total by receptor saved to: C:\HARP2\KAISERMV\hra\KaiserMV-NCChronicRiskSumByRec.csv
Chronic risk total by receptor and source saved to: C:\HARP2\KAISERMV\hra\KaiserMV-NCChronicRiskSumByRecBySrc.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: C:\HARP2\KAISERMV\hra\KaiserMV-NCAcuteRisk.csv
Acute risk total by receptor saved to: C:\HARP2\KAISERMV\hra\KaiserMV-NCAcuteRiskSumByRec.csv
Acute risk total by receptor and source saved to: C:\HARP2\KAISERMV\hra\KaiserMV-NCAcuteRiskSumByRecBySrc.csv
HRA ran successfully

HARP Summary Construction

HARP Project Summary Report 4/15/2019 2:17:41 PM

PROJECT INFORMATION
HARP Version: 19044
Project Name: KAISER-CONTR
Project Output Directory: C:\HARP2\KAISER-CONTR
HARP Database: NA

FACILITY INFORMATION
Origin
X (m):0
Y (m):0
Zone:1
No. of Sources:0
No. of Buildings:0

EMISSION INVENTORY
No. of Pollutants:2
No. of Background Pollutants:0

Emissions

ScrID	StkID	ProID	PolID	PolAbbrev	Multi	Annual Ems (lbs/yr)	MaxHr Ems (lbs/hr)	MWAF
CONSTR	0	0	9901	DieselExhPM	1	6.61625	0	1
TRUCKS	0	0	9901	DieselExhPM	1	0.055	0	1

Background

PolID	PolAbbrev	Conc (ug/m^3)	MWAF

Ground level concentration files (\glc\)

9901MAXHR.txt
9901PER.txt

POLLUTANT HEALTH INFORMATION
Health Database: C:\HARP2\Tables\HEALTH17320.mdb
Health Table Version: HEALTH18232
Official: True

PolID	PolAbbrev	InhCancer	OralCancer	AcuteREL	InhChronicREL	OralChronicREL	InhChronic8HRREL
9901	DieselExhPM	1.1		5			

AIR DISPERSION MODELING INFORMATION
Versions used in HARP. All executables were obtained from USEPA's Support Center for Regulatory Atmospheric Modeling website (http://www.epa.gov/scram001/)
AERMOD: 18081
AERMAP: 18081
BPIPPRM: 04274
AERPLOT: 13329

METEOROLOGICAL INFORMATION
Version:
Surface File:
Profile File:
Surface Station:
Upper Station:
On-Site Station:

LIST OF AIR DISPERSION FILES
AERMOD Input File:
AERMOD Output File:
AERMOD Error File:
Plotfile list

01H1G001.PLT
01H1G002.PLT
PE00G001.PLT
PE00G002.PLT

LIST OF RISK ASSESSMENT FILES
Health risk analysis files (\hra\)

KaiserMV-constr-16yr-CancerRisk.csv
KaiserMV-constr-16yr-CancerRiskSumByRec.csv
KaiserMV-constr-16yr-CancerRiskSumByRecBySrc.csv
KaiserMV-constr-16yr-GLCList.csv
KaiserMV-constr-16yr-HRAInput.hra
KaiserMV-constr-16yr-Output.txt
KaiserMV-constr-16yr-PathwayRec.csv

KaiserMV-constr-16yr-PolDB.csv
KaiserMV-constr-GLCList.csv
KaiserMV-constr-HRAInput.hra
KaiserMV-constr-NCChronicRisk.csv
KaiserMV-constr-NCChronicRiskSumByRec.csv
KaiserMV-constr-NCChronicRiskSumByRecBySrc.csv
KaiserMV-constr-Output.txt
KaiserMV-constr-PathwayRec.csv
KaiserMV-constr-PolDB.csv
KaiserMV-constr-Wkr-16yr-CancerRisk.csv
KaiserMV-constr-Wkr-16yr-CancerRiskSumByRec.csv
KaiserMV-constr-Wkr-16yr-CancerRiskSumByRecBySrc.csv
KaiserMV-constr-Wkr-16yr-GLCList.csv
KaiserMV-constr-Wkr-16yr-HRAInput.hra
KaiserMV-constr-Wkr-16yr-Output.txt
KaiserMV-constr-Wkr-16yr-PathwayRec.csv
KaiserMV-constr-Wkr-16yr-PolDB.csv

Spatial averaging files (\sa\)

HARP Output Construction

HARP2 - HRACalc (dated 19044) 3/26/2019 12:54:27 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCChronic
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Warm

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\HARP2\KAISER-CONTR\hra\KaiserMV-constr-NCChronicRisk.csv
Chronic risk total by receptor saved to: C:\HARP2\KAISER-CONTR\hra\KaiserMV-constr-NCChronicRiskSumByRec.csv
Chronic risk total by receptor and source saved to: C:\HARP2\KAISER-CONTR\hra\KaiserMV-constr-NCChronicRiskSumByRecBySrc.csv
HRA ran successfully

3544 UNIVERSITY AVENUE
RIVERSIDE, CALIFORNIA 92501
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DRAFT
MEMORANDUM

To:	Memorandum to File
From:	Adam Poll; Dudek
Subject:	Health Effects from Criteria Air Pollutants Associated with the Kaiser Permanente Moreno Valley Medical Center Project
Date:	June 5, 2019

1 Purpose

In response to the California Supreme Court's *Sierra Club v. County of Fresno* decision (referred to herein as the Friant Ranch decision), this memorandum addresses the potential for adverse health effects related to emissions of criteria air pollutants associated with construction and operation of the proposed Kaiser Permanente Moreno Valley Medical Center Project (proposed project), based on scientific information and technological methods available at the time of this memorandum's preparation. The recently published Friant Ranch decision (issued on December 24, 2018) addresses the need to correlate mass emission values for criteria air pollutants to specific health consequences, and contains the following direction from the California Supreme Court: "The EIR must provide an adequate analysis to inform the public how its bare numbers translate to create potential adverse impacts or it must explain what the agency *does* know and why, given existing scientific constraints, it cannot translate potential health impacts further." (Italics original.) (Sierra Club v. County of Fresno 2018.)

As discussed below, at the time of this memorandum's preparation, no quantitative methods have been demonstrated to reliably and meaningfully translate the mass emission estimates for the criteria air pollutants resulting from the proposed project to specific health effects. No California air district or other expert agency/entity has published guidance on how to address the Friant Ranch decision,[1] and no industry-accepted modeling platforms with demonstrated results that are reliable and meaningful are available to qualified environmental consultants for such correlation.

[1] The following air districts, state agencies and entities were contacted by Dudek in January 2019, which could not provide guidance on how to proceed in response to the Friant Ranch decision at that time: South Coast Air Quality Management District (AQMD), San Diego Air Pollution Control District (APCD), Mojave Desert AQMD, San Joaquin Valley APCD, Santa Barbara County APCD, San Luis Obispo County APCD, Sacramento Metropolitan AQMD, Bay Area AQMD, California Air Resources Board, California Office of Planning and Research, California Air Pollution Control Officers Association, and Office of Environmental Health Hazard Assessment.

2 National and California Ambient Air Quality Standards

As discussed in Section 4.2, Air Quality, of the proposed project's EIR, ambient air quality standards (AAQS) define clean air, and are established to protect even the most sensitive individuals (CARB 2019a). An AAQS defines the maximum amount of a pollutant averaged over a specified period of time that can be present in outdoor air without harm to the public's health. The U.S. Environmental Protection Agency (EPA) and California Air Resources Board (CARB) are both authorized to set AAQS.

The Clean Air Act Amendments of 1970 instruct the EPA to set primary National AAQS (NAAQS) to protect public health, and secondary NAAQS to protect plants, forests, crops and materials from damage due to exposure to the following criteria air pollutants: ozone (O_3), nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM_{10}), particulate matter with an aerodynamic diameter less than or equal to 2.5 microns ($PM_{2.5}$), and lead.

The federal Clean Air Act requires that the EPA reassess, at least every five years, whether adopted standards are adequate to protect public health based on current scientific evidence. The EPA is required to rely on the advice of an independent scientific panel, the Clean Air Scientific Advisory Committee. Reviewing the NAAQS is a lengthy undertaking and includes the following major phases: planning, integrated science assessment, risk/exposure assessment, policy assessment, and rulemaking (EPA 2018a). During the integrated science assessment, a comprehensive review, synthesis, and evaluation of the most policy-relevant science is conducted, including key science judgments that are important to inform the development of the risk and exposure assessments (EPA 2018a). Then, the risk/exposure assessment draws upon information and conclusions presented in the integrated science assessment to develop quantitative characterizations of exposures and associated risks to human health or the environment associated with recent air quality conditions and with air quality estimated to just meet the current or alternative standard(s) under consideration (EPA 2018a). Scientific review during policy assessment development, and the NAAQS review process in general, is thorough and extensive.

In 1959, California enacted legislation requiring the state Department of Public Health to establish AAQS and necessary controls for motor vehicle emissions (CARB 2019b). California's AAQS (CAAQS) were adopted in 1971 (CARB 2019b). The CAAQS are established for O_3, NO_2, CO, SO_2, PM_{10}, and $PM_{2.5}$, as well as hydrogen sulfide, vinyl chloride, sulfates, and visibility reducing particles.

Air quality standard setting in California commences with a critical review of all relevant peer reviewed scientific literature. The Office of Environmental Health Hazard Assessment (OEHHA) uses the review of health literature to develop a recommendation for the standard. The recommendation can be for no change, or can recommend a new standard. The review, including the OEHHA recommendation, is summarized in a document called the draft Initial Statement of Reasons (ISOR), which is released for comment by the public, and also for public peer review by the Air Quality Advisory Committee (AQAC). AQAC members are appointed by the President of the University of California for their expertise in the range of subjects covered in the ISOR, including health, exposure, air quality monitoring, atmospheric chemistry and physics, and effects on plants, trees, materials, and ecosystems. The Committee provides written comments on the draft ISOR. CARB staff next revises the ISOR based on comments from AQAC and the public. The revised ISOR is then released for a 45-day public comment period prior to consideration by the Board of CARB at a regularly scheduled Board hearing (CARB 2017a).

Federal law requires that all states attain the NAAQS. Failure of a state to reach attainment of the NAAQS by the target date can trigger penalties, including withholding of federal highway funds (CARB 2019b). California law similarly continues to mandate CAAQS, although attainment of the NAAQS has precedence over attainment of the CAAQS (CARB 2019b).

Of importance to this memorandum, California air districts have based their thresholds of significance for California Environmental Quality Act (CEQA) purposes on the levels that scientific and factual data demonstrate that the air basin can accommodate without affecting the attainment date for the NAAQS or CAAQS. Since an AAQS is based on maximum pollutant levels in outdoor air that would not harm the public's health, and air district thresholds pertain to attainment of the AAQS, this means that the thresholds established by air districts are also protective of human health. The particular thresholds of relevance to the proposed project are illustrated in Table 4.2-4, South Coast Air Quality Management District Air Quality Significance Thresholds, of the EIR. Because O_3 is not emitted directly, air districts have established emissions-based thresholds for O_3 precursors—volatile organic compounds (VOCs) and oxides of nitrogen (NO_x)—which are intended to serve as a surrogate for an "O_3 significance threshold" (i.e., the potential for adverse O_3 impacts to occur).

The NAAQS and CAAQS for O_3, NO_2, CO, SO_2, PM_{10}, and $PM_{2.5}$ are presented in Table 1. Hydrogen sulfide, vinyl chloride, sulfates, and visibility reducing particles are not addressed further in this evaluation because they are not routinely associated with land use development projects subject to CEQA review, and are thus not presented in Table 1.[2]

[2] Ambient Air Quality Standards table is provided as Table 1 in the Air Quality and GHG Emissions Analysis Technical Report, and EIR Section 4.2, Air Quality, Table 4.2-1.

Table 1
Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards[a]	National Standards[b]	
		Concentration[c]	Primary[c,d]	Secondary[c,e]
O_3	1 hour	0.09 ppm (180 µg/m³)	—	Same as Primary Standard[f]
	8 hours	0.070 ppm (137 µg/m³)	0.070 ppm (137 µg/m³)[f]	
NO_2[g]	1 hour	0.18 ppm (339 µg/m³)	0.100 ppm (188 µg/m³)	Same as Primary Standard
	Annual Arithmetic Mean	0.030 ppm (57 µg/m³)	0.053 ppm (100 µg/m³)	
CO	1 hour	20 ppm (23 mg/m³)	35 ppm (40 mg/m³)	None
	8 hours	9.0 ppm (10 mg/m³)	9 ppm (10 mg/m³)	
SO_2[h]	1 hour	0.25 ppm (655 µg/m³)	0.075 ppm (196 µg/m³)	—
	3 hours	—	—	0.5 ppm (1,300 µg/m³)
	24 hours	0.04 ppm (105 µg/m³)	0.14 ppm (for certain areas)[g]	—
	Annual	—	0.030 ppm (for certain areas)[g]	—
PM_{10}[i]	24 hours	50 µg/m³	150 µg/m³	Same as Primary Standard
	Annual Arithmetic Mean	20 µg/m³	—	
$PM_{2.5}$[i]	24 hours	—	35 µg/m³	Same as Primary Standard
	Annual Arithmetic Mean	12 µg/m³	12.0 µg/m³	15.0 µg/m³

Source: CARB 2016.

Notes: µg/m³ = micrograms per cubic meter; mg/m³= milligrams per cubic meter; ppm = parts per million by volume; O_3 = ozone; NO_2 = nitrogen dioxide; CO = carbon monoxide; SO_2 = sulfur dioxide; PM_{10} = particulate matter with an aerodynamic diameter less than or equal to 10 microns; $PM_{2.5}$ = particulate matter with an aerodynamic diameter less than or equal to 2.5 microns.

[a] California standards for O_3, CO, SO_2 (1-hour and 24-hour), NO_2, suspended particulate matter (PM_{10}, $PM_{2.5}$), and visibility-reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded. CAAQS are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

[b] National standards (other than O_3, NO_2, SO_2, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once per year. The O_3 standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over 3 years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than 1. For $PM_{2.5}$, the 24-hour standard is attained when 98% of the daily concentrations, averaged over 3 years, are equal to or less than the standard.

[c] Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based on a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

[d] National Primary Standards: The levels of air quality necessary, with an adequate margin of safety, to protect the public health.

[e] National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

[f] On October 1, 2015, the national 8-hour O_3 primary and secondary standards were lowered from 0.075 to 0.070 ppm.

[g] To attain the national 1-hour standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 parts per billion (ppb). Note that the national 1-hour standard is in units of ppb. California standards are in units of ppm. To directly compare the national 1-hour standard to the California standards, the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

[h] On June 2, 2010, a new 1-hour SO_2 standard was established, and the existing 24-hour and annual primary standards were revoked. To attain the national 1-hour standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated nonattainment of the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

[i] CARB adopted new PM standards in June of 2002, responding to requirements of the Children's Environmental Health Protection Act (Senate Bill 25, Escutia 1999), specifically the evaluation of all health-based AAQS to determine if the standards adequately protect human health, particularly that of infants and children. The subsequent review of the PM standards resulted in the recommendation of more health-protective AAQS for PM_{10} and a new standard for $PM_{2.5}$. The new PM standards became effective in 2003. Upon further review, the national annual $PM_{2.5}$ primary standard was lowered from 15 $\mu g/m^3$ to 12.0 $\mu g/m^3$ on December 14, 2012. The existing national 24-hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 $\mu g/m^3$, as was the annual secondary standard of 15 $\mu g/m^3$. The existing 24-hour PM_{10} standards (primary and secondary) of 150 $\mu g/m^3$ were also retained. The form of the annual primary and secondary standards is the annual mean averaged over 3 years.

Pursuant to the 1990 Clean Air Act amendments, the EPA classifies air basins (or portions thereof) as "attainment" or "nonattainment" for each criteria air pollutant, based on whether the NAAQS have been achieved. Generally, if the recorded concentrations of a pollutant are lower than the standard, the area is classified as "attainment" for that pollutant. If an area exceeds the standard, the area is classified as "nonattainment" for that pollutant. If there is not enough data available to determine whether the standard is exceeded in an area, the area is designated as "unclassified" or "unclassifiable." The designation of "unclassifiable/attainment" means that the area meets the standard or is expected to be meet the standard despite a lack of monitoring data. Nonattainment areas must develop plans to attain the NAAQS. Areas that achieve the standards after a nonattainment designation are redesignated as maintenance areas and must have approved maintenance plans to ensure continued attainment of the standards. The California Clean Air Act, like its federal counterpart, called for the designation of areas as "attainment" or "nonattainment," but based on CAAQS rather than NAAQS. The attainment designations for O_3, NO_2, CO, SO_2, PM_{10}, and $PM_{2.5}$ for the South Coast Air Basin (SCAB) are listed in Table 2.[3]

Table 2
South Coast Air Basin Attainment Designation

Pollutant	National Designation	California Designation
O_3 (1-hour)	No National Standard	**Nonattainment**
O_3 (8-hour – 1997) (8-hour – 2008)	Attainment (Maintenance) **Nonattainment (Moderate)**	**Nonattainment**
NO_2	Unclassifiable/attainment	Attainment
CO	Attainment/maintenance	Attainment
SO_2	Unclassifiable/attainment	Attainment
PM_{10}	Attainment/maintenance	**Nonattainment**
$PM_{2.5}$	Serious nonattainment	**Nonattainment**

Sources: EPA 2018b (national); CARB 2018a (California).
Notes:
Bold text = not in attainment; Attainment = meets the standards; Attainment (Maintenance) = achieve the standards after a nonattainment designation; Nonattainment = does not meet the standards; Unclassified or Unclassifiable = insufficient data to classify; Unclassifiable/Attainment = meets the standard or is expected to be meet the standard despite a lack of monitoring data.

[3] The same discussion of the SCAB attainment designation is provided in Section 4.2.1, Relevant Plans, Policies, and Ordinances, of the EIR.

As shown in Table 2, the SCAB is designated as a nonattainment area for O_3, PM_{10}, and $PM_{2.5}$ under the NAAQS and/or the CAAQS.

As discussed in 4.2.2, Relevant Plans, Policies, and, the SCAQMD is responsible for developing and implementing the clean air plan for attainment and maintenance of the AAQS in the SCAB and portions of the Salton Sea Air Basin and Mojave Desert Air Basin. Accordingly, the SCAQMD has adopted federal and state attainment plans; most recently, the 2016 Air Quality Management Plan (AQMP). The AQMP relies on information from CARB and Southern California Association of Governments, as well as information regarding projected growth in the cities and counties (all of Orange County and the non-desert portions of Los Angeles, Riverside and San Bernardino counties) within the SCAQMD jurisdiction, to forecast future emissions and then determine from that the strategies necessary for the reduction of emissions through regulatory controls. As the SCAQMD develops and implements plans and control measures designed to attain the AAQS, the SCAQMD implements measures to reduce public health effects associated with criteria air pollutants.

3 Health Effects of Criteria Air Pollutants and their Precursors

Numerous scientific studies published over the past 50 years point to the harmful effects of air pollution (CARB 2019b). As explained above, the AAQS are designed to prevent these effects (CARB 2019b). The adverse health effects associated with air pollution are diverse and include (SCAQMD 2017):

- Premature mortality
- Cardiovascular effects
- Increased health care utilization (hospitalization, physician and emergency room visits)
- Increased respiratory illness and other morbidity (symptoms, infections, and asthma exacerbation)
- Decreased lung function (breathing capacity)
- Lung inflammation
- Potential immunological changes
- Increased airway reactivity to a known pharmacological agent exposure - a method used in laboratories to evaluate the tendency of airways to have an increased possibility of developing an asthmatic response
- A decreased tolerance for exercise
- Adverse birth outcomes such as low birth weights

The evidence linking these effects to air pollutants is derived from population-based observational and field studies (epidemiological) as well as controlled laboratory studies involving human subjects and animals. There have been an increasing number of studies focusing on the mechanisms (that is, on learning how specific organs, cell types, and biomarkers are involved in the human body's response to air pollution) and specific pollutants responsible for individual effects. Yet the underlying biological pathways for these effects are not always clearly understood (SCAQMD 2017).

Although individuals inhale pollutants as a mixture under ambient conditions, the regulatory framework and the control measures developed are pollutant-specific for six major outdoor pollutants covered under Sections 108 and 109 of the Clean Air Act. This is appropriate, in that different pollutants usually differ in their sources, their times and places of occurrence, the kinds of health effects they may cause, and their overall levels of health risk. Different

pollutants, from the same or different sources, oftentimes occur together. Evidence for more than additive effects has not been strong and, as a practical matter, health scientists, as well as regulatory officials, usually must deal with one pollutant at a time in adopting AAQS (SCAQMD 2017).

Health effects associated with criteria air pollutants are discussed below; the same or similar information is provided in Section 4.2, Air Quality, of the proposed project's EIR.

Ozone (O_3). O_3 in the troposphere causes numerous adverse health effects; short-term exposures (lasting for a few hours) to O_3 at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, respiratory symptoms, worsening of lung disease leading to premature death, increased susceptibility to infections, inflammation of and damage to the lung tissue, and some immunological changes (EPA 2013, CARB 2019c). These health problems are particularly acute in sensitive receptors such as the sick, older adults, and young children.

Inhalation of O_3 causes inflammation and irritation of the tissues lining human airways, causing and worsening a variety of symptoms. Exposure to O_3 can reduce the volume of air that the lungs breathe in and cause shortness of breath. O_3 in sufficient doses increases the permeability of lung cells, rendering them more susceptible to toxins and microorganisms. The occurrence and severity of health effects from O_3 exposure vary widely among individuals, even when the dose and the duration of exposure are the same. Research shows adults and children who spend more time outdoors participating in vigorous physical activities are at greater risk from the harmful health effects of O_3 exposure. While there are relatively few studies of O_3's effects on children, the available studies show that children are no more or less likely to suffer harmful effects than adults. However, there are a number of reasons why children may be more susceptible to O_3 and other pollutants. Children and teens spend nearly twice as much time outdoors and engaged in vigorous activities as adults. Children breathe more rapidly than adults and inhale more pollution per pound of their body weight than adults. Also, children are less likely than adults to notice their own symptoms and avoid harmful exposures. Further research may be able to better distinguish between health effects in children and adults. Children, adolescents and adults who exercise or work outdoors, where O_3 concentrations are the highest, are at the greatest risk of harm from this pollutant (CARB 2019c).

A number of population groups are potentially at increased risk for O_3 exposure effects. In the ongoing review of O_3, the EPA has identified populations as having adequate evidence for increased risk from O_3 exposures include individuals with asthma, younger and older age groups, individuals with reduced intake of certain nutrients such as Vitamins C and E, and outdoor workers. There is suggestive evidence for other potential factors, such as variations in genes related to oxidative metabolism or inflammation, gender, socioeconomic status, and obesity. However further evidence is needed (SCAQMD 2017).

The adverse effects reported with short-term O_3 exposure are greater with increased activity because activity increases the breathing rate and the volume of air reaching the lungs, resulting in an increased amount of O_3 reaching the lungs. Children may be a particularly vulnerable population to air pollution effects because they spend more time outdoors, are generally more active, and have a higher specific ventilation relative to their body weight, compared to adults (SCAQMD 2017).

Volatile Organic Compounds (VOCs). The primary health effects of VOCs result from the formation of O_3 and its related health effects. High levels of VOCs in the atmosphere can interfere with oxygen intake by reducing the amount of available oxygen through displacement. Carcinogenic forms of hydrocarbons, such as benzene, are

considered TACs. There are no separate health standards for VOCs as a group. Within this evaluation, VOC and reactive organic gases (ROGs) are used interchangeably.

Nitrogen Dioxide (NO_2). A large body of health science literature indicates that exposure to NO_2 can induce adverse health effects. The strongest health evidence, and the health basis for the AAQS for NO_2, is results from controlled human exposure studies that show that NO_2 exposure can intensify responses to allergens in allergic asthmatics. In addition, a number of epidemiological studies have demonstrated associations between NO_2 exposure and premature death, cardiopulmonary effects, decreased lung function growth in children, respiratory symptoms, emergency room visits for asthma, and intensified allergic responses. Infants and children are particularly at risk because they have disproportionately higher exposure to NO_2 than adults due to their greater breathing rate for their body weight and their typically greater outdoor exposure duration. Several studies have shown that long-term NO_2 exposure during childhood, the period of rapid lung growth, can lead to smaller lungs at maturity in children with higher compared to lower levels of exposure. In addition, children with asthma have a greater degree of airway responsiveness compared with adult asthmatics. In adults, the greatest risk is to people who have chronic respiratory diseases, such as asthma and chronic obstructive pulmonary disease (CARB 2019d).

Carbon Monoxide (CO). Carbon monoxide is harmful because it binds to hemoglobin in the blood, reducing the ability of blood to carry oxygen. This interferes with oxygen delivery to the body's organs. The most common effects of CO exposure are fatigue, headaches, confusion and reduced mental alertness, and light-headedness, dizziness due to inadequate oxygen delivery to the brain. For people with cardiovascular disease, short-term CO exposure can further reduce their body's already compromised ability to respond to the increased oxygen demands of exercise, exertion, or stress. Inadequate oxygen delivery to the heart muscle leads to chest pain and decreased exercise tolerance. Unborn babies whose mothers experience high levels of CO exposure during pregnancy are at risk of adverse developmental effects. Unborn babies, infants, elderly people, and people with anemia or with a history of heart or respiratory disease are most likely to experience health effects with exposure to elevated levels of CO (CARB 2019e).

Sulfur Dioxide (SO_2). SO_2 is an irritant gas that attacks the throat and lungs and can cause acute respiratory symptoms and diminished ventilator function in children. When combined with particulate matter (PM), SO_2 can injure lung tissue and reduce visibility and the level of sunlight. SO_2 can worsen asthma resulting in increased symptoms, increased medication usage, and emergency room visits.

Controlled human exposure and epidemiological studies show that children and adults with asthma are more likely to experience adverse responses with SO_2 exposure, compared with the non-asthmatic population. Effects at levels near the one-hour standard are those of asthma exacerbation, including bronchoconstriction accompanied by symptoms of respiratory irritation such as wheezing, shortness of breath and chest tightness, especially during exercise or physical activity. Also, exposure at elevated levels of SO_2 (above 1 parts per million (ppm)) results in increased incidence of pulmonary symptoms and disease, decreased pulmonary function, and increased risk of mortality. The elderly and people with cardiovascular disease or chronic lung disease (such as bronchitis or emphysema) are most likely to experience these adverse effects (CARB 2019f).

SO_2 is of concern both because it is a direct respiratory irritant and because it contributes to the formation of sulfate and sulfuric acid in PM (NRC 2005). People with asthma are of particular concern, both because they have increased baseline airflow resistance and because their SO_2-induced increase in resistance is greater than in

healthy people, and it increases with the severity of their asthma (NRC 2005). SO_2 is thought to induce airway constriction via neural reflexes involving irritant receptors in the airways (NRC 2005).

Particulate Matter (PM_{10} and $PM_{2.5}$). A number of adverse health effects have been associated with exposure to both $PM_{2.5}$ and PM_{10}. For $PM_{2.5}$, short-term exposures (up to 24-hours duration) have been associated with premature mortality, increased hospital admissions for heart or lung causes, acute and chronic bronchitis, asthma attacks, emergency room visits, respiratory symptoms, and restricted activity days. These adverse health effects have been reported primarily in infants, children, and older adults with preexisting heart or lung diseases. In addition, of all of the common air pollutants, $PM_{2.5}$ is associated with the greatest proportion of adverse health effects related to air pollution, both in the United States and world-wide based on the World Health Organization's Global Burden of Disease Project. Short-term exposures to PM_{10} have been associated primarily with worsening of respiratory diseases, including asthma and chronic obstructive pulmonary disease, leading to hospitalization and emergency department visits (CARB 2017b).

Long-term (months to years) exposure to $PM_{2.5}$ has been linked to premature death, particularly in people who have chronic heart or lung diseases, and reduced lung function growth in children. The effects of long-term exposure to PM_{10} are less clear, although several studies suggest a link between long-term PM_{10} exposure and respiratory mortality. The International Agency for Research on Cancer published a review in 2015 that concluded that PM in outdoor air pollution causes lung cancer (CARB 2017b).

People with influenza, people with chronic respiratory and cardiovascular diseases, and older adults may suffer worsening illness and premature death as a result of breathing PM. People with bronchitis can expect aggravated symptoms from breathing PM. Children may experience a decline in lung function due to breathing in PM_{10} and $PM_{2.5}$ (EPA 2009).

PM encompasses a physically and chemically diverse class of ambient air pollutants of both anthropogenic and biological origin. The PM standard is the only NAAQS that does not target a specific chemical or family of chemical species (NRC 2005). The range of human health effects associated with ambient PM levels or demonstrated in laboratory studies has expanded from earlier concerns for total mortality and respiratory morbidity to include cardiac mortality and morbidity, blood vessel constriction, stroke, premature birth, low birth weight, retarded lung growth, enhancement of allergic responses, reduced resistance to infection, degenerative lesions in the brain, and lung cancer (EPA 2004).

4 Scientific and Technological Complexities

At issue in the Friant Ranch decision was the fact that a development project's EIR did not connect its mass emission totals to specific adverse human health effects. Concerned with the sufficiency of the EIR as an informational document, and specifically whether the magnitude of project impacts was adequately disclosed, the California Supreme Court stated the following:

> "The task for real party and the County is clear: The EIR must provide an adequate analysis to inform the public how its bare numbers translate to create potential adverse impacts or it must adequately explain what the agency *does* know and why, given existing scientific constraints, it cannot translate potential health impacts further." (Sierra Club v. County of Fresno 2018; italics original)

As discussed further below, at the time of this writing, no available modeling tools have been proven to provide a reliable and meaningful analysis to correlate an increase in mass totals or concentrations of criteria air pollutants from an individual project to specific health effects, or estimate additional pollutant nonattainment days relative to the NAAQS and CAAQS due to a single project.

Formation of Secondary Pollutants

The California Supreme Court noted, in the Friant Ranch decision, that: "The raw numbers estimating the tons per year of ROG and NO_x from the Project do not give any information to the reader about how much ozone is estimated to be produced as a result."

In response, the formation of O_3 and PM in the atmosphere, as secondary pollutants,[4] involves complex chemical and physical interactions of multiple pollutants from natural and anthropogenic sources, as further explained below. The complexity in how secondary pollutants are formed and dispersed has resulted in ongoing difficulties in measuring and regulating those pollutants.

Tropospheric, or ground level O_3, is not emitted directly into the air, but is created by chemical reactions between NO_x and VOCs (EPA 2018c). This happens when pollutants emitted by cars, power plants, industrial boilers, refineries, chemical plants, and other sources chemically react in the presence of sunlight (EPA 2018c). O_3 is most likely to reach unhealthy levels on hot sunny days in urban environments, but can still reach high levels during colder months (EPA 2018c). O_3 can also be transported long distances by wind, so even rural areas can experience high O_3 levels (EPA 2018c).

The O_3 reaction is self-perpetuating (or catalytic) in the presence of sunlight because NO_2 is photochemically reformed from nitric oxide (NO). In this way, O_3 is controlled by both NO_x and VOC emissions (NRC 2005). The complexity of these interacting cycles of pollutants means that incremental decreases in one emission may not result in proportional decreases in O_3 (NRC 2005). Although these reactions and interactions are well understood, variability in emission source operations and meteorology creates uncertainty in the modeled O_3 concentrations to which downwind populations may be exposed (NRC 2005). This is especially true for individual projects, like the proposed project, where project-generated criteria air pollutant emissions are not derived from a single "point source," but from mobile sources (cars and trucks) driving to, from and around the Project area and area sources (consumer products, architectural coating, natural gas fireplaces, etc.).

In many urban areas, O_3 nonattainment is not caused by emissions from the local area alone (EPA 2008). Due to atmospheric transport, contributions of precursors from the surrounding region can also be important (EPA 2008, O_3 NAAQS). Thus, in designing control strategies to reduce O_3 concentrations in a local area, it is often necessary to account for regional transport within the U.S. (EPA 2008). In some areas, such as California, global transport of O_3 from beyond North America also can contribute to nonattainment areas (EPA 2008).

PM can be divided into two categories: directly emitted PM and secondary PM. Secondary PM, like O_3, is formed via complex chemical reactions in the atmosphere between precursor chemicals such as SO_x and NO_x (SJVAPCD 2015). In general, PM_{10} is composed largely of primary particles, and a much greater portion of $PM_{2.5}$ contains secondary

[4] Air pollutants formed through chemical reactions in the atmosphere are referred to as secondary pollutants.

particles (EPA 2015b). The secondary formation of $PM_{2.5}$ is dominated by a variety of chemical species or components of atmospheric particles, such as ammonium sulfate, ammonium nitrate, organic carbon mass, elemental carbon, and other soil compounds and oxidized metals. $PM_{2.5}$, sulfate, nitrate, and ammonium ions are predominantly the result of chemical reactions of the oxidized products of SO_2 and NO_x emissions with direct ammonia emission (EPA 2017a). Because of the complexity of secondary PM formation, including the potential to be transported long distances by wind, the tonnage of PM-forming precursor emissions in an area does not necessarily result in an equivalent concentration of secondary PM in that area (SJVAPCD 2015).

Because of the long-range transport of some pollutants, important emission sources may be far from the locations where measured pollutant concentrations exceed the AAQS (NRC 2005). Thus, for areas experiencing higher ambient concentrations of pollutants, such as O_3 and PM, controlling emissions of those pollutants and their precursors is typically a regional, often multistate, problem, not a local one (NRC 2005).

San Joaquin Valley Air Pollution Control District and South Coast Air Quality Management District Briefs

In connection with the judicial proceedings culminating in issuance of the Friant Ranch decision, the San Joaquin Valley Air Pollution Control District (SJVAPCD) and the South Coast Air Quality Management District (SCAQMD) filed amicus briefs attesting to the extreme difficulty of correlating an individual project's criteria air pollutant emissions to specific health impacts. Both the SJVAPCD and the SCAQMD have among the most sophisticated air quality modeling and health impact evaluation capabilities of the air districts in the State. While the information and arguments presented in those briefs was considered by the California Supreme Court, the Court noted that such information was not part of the administrative record associated with the County's decision to approve the Friant Ranch project. A summary of the key, relevant points of the SJVAPCD and SCAQMD briefs is provided below.

Difference between Toxic Air Contaminants and Criteria Air Pollutants

As explained in Section 4.2.2, Existing Conditions, a toxic air contaminant (TAC) is an air pollutant, identified in regulation by CARB, which may cause or contribute to an increase in deaths or in serious illness, or which may pose a present or potential hazard to human health. TACs are considered under a different regulatory process (California Health and Safety Code section 39650 et seq.) than pollutants subject to CAAQS and NAAQS. Health effects to TACs may occur at extremely low levels and it is typically difficult to identify levels of exposure which do not produce adverse health effects. A criteria air pollutant, on the other hand, is an air pollutant for which acceptable levels of exposure can be determined and for which an AAQS has been set (CARB 2019g).

As the SJVAPCD explained in their brief, "Although criteria air pollutants can also be harmful to human health, they are distinguishable from TACs and are regulated separately. The most relevant difference between criteria pollutants and TACs for purposes of this case is the manner in which human health impacts are accounted for. While it is common practice to analyze the correlation between an individual facility's TAC emissions and the expected localized human health impacts, such is not the case for criteria pollutants" (SJVAPCD 2015). Unlike with TACs (where assessment occurs in conjunction with environmental analysis for individual projects), the human health impacts associated with criteria air pollutants are analyzed and taken into consideration when EPA sets the NAAQS for each criteria pollutant. (42 U.S.C. § 7409(b)(1).) The health impact of a particular criteria pollutant is analyzed on a regional and not a facility or individual project level based on how close the area is to complying with (attaining) the NAAQS (SJVAPCD 2015). The SJVAPCD concluded that while it is possible to perform a health impact

analysis for TACs, which was done for construction and operation of the proposed project (see Section 4.2.4 Impacts Analysis, AQ-3), "it is not feasible to conduct a similar analysis for criteria air pollutants because currently available computer modeling tools are not equipped for this task" (SJVAPCD 2015).

Disconnect Between Mass and Concentration

Another important technical nuance is that health effects from air pollutants are related to the concentration of the air pollutant that an individual is exposed to, not necessarily the individual mass quantity of emissions associated with an individual project. For example, health effects from O_3 are correlated with increases in the ambient level of O_3 in the air a person breathes (SCAQMD 2015). However, it takes a large amount of additional precursor emissions to cause a modeled increase in ambient O_3 levels over an entire region (SCAQMD 2015).

For CEQA analyses, project-generated emissions are typically estimated in pounds per day or tons per year and compared to mass daily or annual emission thresholds. While CEQA thresholds are established at levels that the air basin can accommodate without affecting the attainment date for the AAQS, even if a project exceeds established CEQA significance thresholds, this does not mean that one can easily determine the concentration of O_3 or PM that will be created at or near the project site on a particular day or month of the year, or what specific health impacts will occur (SJVAPCD 2015).

As the SJVAPCD points out, the tonnage of PM "emitted does not always equate to the local PM concentration because it can be transported long distances by wind," and "[s]econdary PM, like O_3, is formed via complex chemical reactions in the atmosphere between precursor chemicals such as sulfur dioxides (SO_x) and NO_x," meaning that "the tonnage of PM-forming precursor emissions in an area does not necessarily result in an equivalent concentration of secondary PM in that area" (SJVAPCD 2015). The disconnect between the tonnage of precursor pollutants (NO_x, SO_x and VOCs) and the concentration of O_3 or PM formed is important because it is not necessarily the tonnage of precursor pollutants that causes human health effects, but the concentration of resulting O_3 or PM (SJVAPCD 2015). As discussed previously, the AAQS are established as concentrations of O_3 or PM and not as tonnages of their precursor pollutants (SJVAPCD 2015). The disconnect between the amount of precursor pollutants and the concentration of O_3 or PM formed makes it difficult to determine potential health impacts, which are related to the concentration of O_3 and PM experienced by the receptor rather than levels of NO_x, SO_x, and VOCs produced by a source (SJVAPCD 2015).

As discussed above, attainment of a particular AAQS occurs when the concentration of the relevant pollutant remains below a set threshold on a consistent basis throughout a particular region (SJVAPCD 2015). Because the AAQS are focused on achieving a particular concentration of pollution region-wide, an air district's tools and plans for attaining the AAQS are regional in nature (SJVAPCD 2015). For instance, the computer models used to simulate and predict an attainment date for the O_3 or PM NAAQS in the San Joaquin Valley are based on regional inputs, such as regional inventories of precursor pollutants (NO_x, SO_x and VOCs) and the atmospheric chemistry and meteorology of the San Joaquin Valley (SJVAPCD 2015). At a very basic level, the models simulate future O_3 or PM levels based on predicted changes in precursor emissions San Joaquin Valley Air Basin-wide (SJVAPCD 2015). Because the AAQS are set levels necessary to protect human health, the closer a region is to attaining a particular AAQS, the lower the human health impact is from that pollutant (SJVAPCD 2015).

The goal of these modeling exercises is not to determine whether the emissions generated by a particular factory or development project will affect the date that the San Joaquin Valley Air Basin attains the AAQS (SJVAPCD 2015).

Rather, the SJVAPCD's modeling and planning strategy is regional in nature and based on the extent to which all of the emission-generating sources in the San Joaquin Valley Air Basin (current and future) must be controlled in order to reach attainment (SJVAPCD 2015).

Correlation to Health Effects

The SJVAPCD ties the difficulty of correlating the emission of criteria pollutants to health impacts to how O_3 and PM are formed, as explained above. According to SJVAPCD, "even once a model is developed to accurately ascertain local increases in concentrations of photochemical pollutants like O_3 and some particulates, it remains impossible, using today's models, to correlate that increase in concentration to a specific health impact [because] such models are designed to determine regional, population-wide health impacts, and simply are not accurate when applied at the local level" (SJVAPCD 2015).

To demonstrate the relative scale between emissions within the SCAQMD jurisdiction used in photochemical and other regional modeling and proposed project-level emissions, emissions for the SCAQMD jurisdiction from the CARB California Emissions Projection Analysis Model (CEPAM) emissions inventory and estimated emissions from the proposed project are summarized below. CEPAM produces projected emissions that can then be gridded to serve as the emission input for photochemical modeling. Including all sources except natural sources,[5] total emissions for the SCAQMD for the CEPAM baseline year of 2012 is as follows: 485 tons per day for VOC, 573 tons per day of NO_x, 2,183 tons per day of CO, 19 tons per day for SO_x, 168 tons per day of PM_{10}, and 70 tons per day of $PM_{2.5}$ (CARB 2018b). For the proposed project's buildout year of 2035, total projected emissions for the SCAQMD for all sources expect natural, as forecasted by CEPAM, is as follows: 341 tons per day for VOC, 198 tons per day of NO_x, 1,164 tons per day of CO, 16 tons per day for SO_x, 166 tons per day of PM_{10}, and 64 tons per day of $PM_{2.5}$ (CARB 2018b). Construction of the proposed project is estimated to result in maximum daily emissions of 0.03 ton per day for VOC, 0.02 ton per day of NO_x, 0.02 ton per day of CO, less than 0.01 ton per day for SO_x, 0.01 ton per day of PM_{10}, and 0.01 ton per day of $PM_{2.5}$ (see Tables 4.2-9, 4.2-10, and 4.2-11 of the EIR). Proposed project operation is anticipated to result in maximum daily emissions of 0.02 ton per day for VOC, 0.06 ton per day of NO_x, 0.04 ton per day of CO, less than 0.01 ton per day for SO_x, 0.01 ton per day of PM_{10}, and less than 0.01 ton per day of $PM_{2.5}$ (see Table 4.2-14 of the EIR). As presented above, proposed project emissions represent a small fraction of the total emissions in the SCAQMD jurisdiction.

SCAQMD used O_3, which is formed from the chemical reaction of NO_x and VOCs in the presence of sunlight, as an example of why it is impracticable to determine specific health outcomes from criteria pollutants for all but very large, regional-scale projects. First, forming O_3 "takes time and the influence of meteorological conditions for these reactions to occur, so ozone may be formed at a distance downwind from the sources" (SCAQMD 2015). Second, "it takes a large amount of additional precursor emissions (NO_x and VOCs) to cause a modeled increase in ambient ozone levels over an entire region," with a 2012 study showing that "reducing NO_x by 432 tons per day (157,680 tons/year) and reducing VOC by 187 tons per day (68,255 tons/year) would reduce ozone levels at the SCAQMD's monitor site with the highest levels by only 9 parts per billion" (SCAQMD 2015). SCAQMD thus concludes that it "does not currently know of a way to accurately quantify O_3-related health impacts caused by NO_x or VOC emissions from relatively small projects" (SCAQMD 2015).

[5] Natural sources are non-manmade emission sources, which include biological and geological sources, wildfires, windblown dust, and biogenic emissions from plants and trees.

Essentially, SCAQMD takes the position that a project emitting only 10 tons per year of NO_x or VOC is small enough that its regional impact on ambient O_3 levels may not be detected in the regional air quality models that are currently used to determine O_3 levels; thus, in this case it would not be feasible to directly correlate project emissions of VOC or NO_x with specific health impacts from O_3 (SCAQMD 2015). Therefore, lead agencies that use SCAQMD's thresholds of significance may determine that many projects have "significant" air quality impacts and must apply all feasible mitigation measures, yet will not be able to precisely correlate the project to quantifiable health impacts.

Effects on Number of Nonattainment Days

In regard to regional concentrations and air basin attainment, the SJVAPCD emphasized that attempting to identify a change in background pollutant concentrations that can be attributed to a single project, even one as large as the entire Friant Ranch Specific Plan, is a theoretical exercise. The SJVAPCD brief noted that it "would be extremely difficult to model the impact on NAAQS attainment that the emissions from the Friant Ranch project may have" (SJVAPCD 2015). The situation is further complicated by the fact that background concentrations of regional pollutants are not uniform either temporally or geographically throughout an air basin, but are constantly fluctuating based upon meteorology and other environmental factors. As discussed above, the currently available modeling tools are equipped to model the impact of all emission sources in the San Joaquin Valley Air Basin on attainment (SJVAPCD 2015). The SJVAPCD brief then indicated that, "Running the photochemical grid model used for predicting O_3 attainment with the emissions solely from the Friant Ranch project (which equate to less than one-tenth of one percent of the total NO_x and VOC in the Valley) is not likely to yield valid information given the relative scale involved" (SJVAPCD 2015).

Methods Evaluated

At the time of writing, there are no specific tools established for use in CEQA documents to connect criteria air pollutant emissions from an individual project to specific health effects. Similarly, there are no specific tools established for use in National Environmental Policy Act (NEPA) documents that provide the discussed correlation. As such, Dudek evaluated existing modeling tools and calculation methods established for other purposes and uses, in order to determine whether such tools and methods could potentially be used in CEQA documents in a manner that would address the Friant Ranch decision and provide reliable and meaningful results. As illustrated in the discussion that follows, the available tools and methods do not correlate data in the manner contemplated in the Friant Ranch decision.

California Emissions Estimator Model

The California Emissions Estimator Model (CalEEMod) is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and greenhouse gas emissions associated with both construction and operations from a variety of land use development projects (CAPCOA 2017). CalEEMod quantifies direct emissions from construction and operational activities. CalEEMod incorporates vehicle emission factors from the CARB Mobile Source Emissions Inventory, EMFAC, and CARB's offroad equipment inventory, OFFROAD. CalEEMod was developed for the California Air Pollution Officers Association (CAPCOA) in collaboration with numerous expert consultants and California Air Districts. CalEEMod is broadly accepted by lead agencies and technical experts as a comprehensive tool for quantifying air quality impacts from land use projects located throughout California for CEQA purposes.

CalEEMod estimates emissions of ROG, NO_x, CO, SO_x, PM_{10}, $PM_{2.5}$ in mass daily emissions (pounds per day) and mass annual emissions (tons per year). For PM_{10} and $PM_{2.5}$, CalEEMod estimates exhaust and fugitive dust emissions separately. CalEEMod does not estimate concentrations of air pollutants and does not estimate emissions of secondary pollutants such as O_3 and $PM_{2.5}$. In addition, CalEEMod does not estimate potential health effects of a project. Accordingly, CalEEMod is not suitable to evaluate health effects from individual projects.

Ambient Air Quality Analysis Using Dispersion Model

An ambient air quality analysis (AAQA) is typically conducted to estimate the maximum concentration of a criteria air pollutant taking into consideration meteorology, including wind direction and speed, and terrain for the area, as well as emission source characteristics, such as coordinates and facility boundaries. AAQAs are conducted for on-site air pollutant sources to assess potential concentrations in the vicinity of a project or facility. If a project exceeds a mass daily or annual threshold for a pollutant for which an air basin is in attainment of, an AAQA can evaluate whether the maximum project-generated pollutant concentration plus the ambient background concentration of that pollutant in the project area could result in an exceedance of an AAQS.

An AAQA is typically conducted using an air dispersion model. Air dispersion models calculate the atmospheric transport and fate of pollutants from the emission source. The models calculate the concentration of selected pollutants at specific downwind ground-level points, such as residential or off-site workplace receptors. The transformation (fate) of an airborne pollutant, its movement with the prevailing winds (transport), its crosswind and vertical movement due to atmospheric turbulence (dispersion), and its removal due to dry and wet deposition are influenced by the pollutant's physical and chemical properties and by meteorological and environmental conditions. Factors such as distance from the source to the receptor, meteorological conditions, intervening land use and terrain, pollutant release characteristics, and background pollutant concentrations affect the predicted air concentration of an air pollutant. Air dispersion models have the capability to take all of these factors into consideration when calculating downwind ground-level pollutant concentrations.

The American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) is typically used for an AAQA. AERMOD is a steady-state plume model that incorporates air dispersion based on planetary boundary layer turbulence structure and scaling concepts, including treatment of both surface and elevated sources, and both simple and complex terrain. AERMOD can estimate pollutant concentrations of NO_x, NO_2, CO, SO_2, PM_{10}, $PM_{2.5}$, total suspended particulates, lead, and other pollutants. AERMOD cannot estimate concentrations of O_3 or secondary PM.

The SJVAPCD has developed an AAQA modeling methodology with three levels of increasing refinement and complexity (SJVAPCD 2014). For each level, the SJVAPCD recommends first summing the maximum modeled concentration for each pollutant and averaging period combination with the corresponding background concentrations and comparing against the respective AAQS. If the project does not cause an exceedance of any AAQS, then no further evaluation is required. However, if the project results in an exceedance of an AAQS, the SJVAPCD then recommends comparing the project's maximum modeled concentration for each pollutant and averaging period combination with the corresponding EPA Significant Impact Level (SIL), which are used as concentration screening thresholds to determine whether a project source's emissions would have a potentially significant impact on air quality in the area (SJVAPCD 2014). The SILs are based on the EPA Prevention of Significant Deterioration (PSD) permitting program to represent the point below which the increased emissions from a new or modified major source on air quality does not cause or contribute to a violation of the NAAQS.

While AERMOD can estimate concentrations for certain pollutants (though it cannot estimate concentrations of secondary pollutants such as O_3 and PM), no methods have been demonstrated to reliably and meaningfully connect pollutant concentrations to specific health effects. Further, when a project exceeds a threshold for a pollutant for which the air basin is in nonattainment and the background level in the project area already exceeds the AAQS, the AAQA is not presently able to estimate additional nonattainment days resulting from the project's pollutant concentration contribution.

SCAQMD Localized Significance Threshold Analysis

The SCAQMD developed a localized significance threshold (LST) analysis in response to CARB Governing Board's Environmental Justice Enhancement Initiative I-4. As discussed in Section 4.2.3, Thresholds of Significance, LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable national or state AAQS at the nearest sensitive receptor, taking into consideration ambient concentrations in each source receptor area, project size, and distance to the nearest sensitive receptor. LSTs has been developed for NO_2, CO, PM_{10}, and $PM_{2.5}$. Because O_3 is a pollutant of regional concern, LSTs are not applicable to VOC emissions, which contribute to O_3 formation. Per the LST guidance, only on-site emissions should be included; off-site mobile emissions from the project should not be included in the emissions compared to the LSTs (SCAQMD 2008).

The SCAQMD developed LST lookup tables to assist lead agencies with a simple tool for evaluating the impacts from small, typical projects; the LST mass rate look-up tables allow a user to readily determine if the daily emissions for proposed construction or operational activities could result in significant localized air quality impacts without performing project-specific dispersion modeling. If the calculated emissions for the proposed construction or operational activities are below the LST emission levels found on the LST mass rate look-up tables and no potentially significant impacts are found to be associated with other environmental issues, then the proposed construction or operation activity is not significant for air quality. Proposed projects whose calculated emission budgets for the proposed construction or operational activities are above the LST emission levels found in the LST mass rate look-up tables should not assume that the project would necessarily generate adverse impacts. Detailed air dispersion modeling may demonstrate that pollutant concentrations are below LSTs. The lead agency may choose to describe project emissions above those presented in the LST mass rate look-up tables as significant or perform detailed air dispersion modeling or perform localized air quality impact analysis according to their own significance criteria (SCAQMD 2008). The SCAQMD provides guidance for performing the dispersion modeling if the lead agency

chooses to. A LST analysis was performed to evaluate localized impacts of proposed project construction as presented in Section 4.2.4, Impacts Analysis, of the EIR.

As noted above, the LST analysis is not for all criteria air pollutants; LSTs have only been established for localized (onsite) emissions of NO_2, CO, PM_{10}, and $PM_{2.5}$. In addition, the LSTs are specific to source receptor areas, which take into account ambient air quality as measured by SCAQMD monitoring stations in or near the source receptor area, within the SCAQMD jurisdictional boundaries (SCAQMD 2008). As such, use of the SCAQMD LST analysis outside of the SCAQMD is not appropriate. As with the AAQA discussion above, the LST analysis does not connect pollutant concentrations to specific health effects. Further, the LST analysis does not estimate additional nonattainment days resulting from the project's pollutant concentration contribution.

Toxic Air Contaminant Health Risk Assessments

Generically, risk is the probability of an adverse outcome from any situation or action. A health risk assessment (HRA), therefore, is an analysis or report that describes the type and quantity of pollutants a person may be exposed to and estimates the potential cancer or noncancer health risk from the predicted exposures using mathematical models (CARB 2018c). The HRA includes a comprehensive analysis of the dispersion of hazardous substances, the potential for human exposure, and a quantitative assessment of both individual and population wide health risks (CARB 2018c).

As explained above, there are important differences between TACs and criteria air pollutants. Health effects to TACs may occur at extremely low levels and it is typically difficult to identify levels of exposure which do not produce adverse health effects, while a criteria air pollutant is an air pollutant for which acceptable levels of exposure can be determined (CARB 2019g).

HRAs in California are to be conducted according to methods developed by the OEHHA and are intended to be protective of the public's health (CARB 2018c). OEHHA has developed an Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (Guidance Manual), which includes a description of the algorithms, recommended exposure variates, cancer and noncancer health values, and the air modeling protocols needed to perform a HRA under the Air Toxics Hot Spots Information and Assessment Act of 1987 (Health and Safety Code Section 44300 et seq.) (OEHHA 2015).

HRAs typically use AERMOD, which, as explained above, is a dispersion model that can estimate concentrations of certain pollutants. A HRA typically also uses CARB's Hotspots Analysis and Reporting Program (HARP), which is a software suite that addresses the programmatic requirements of the Air Toxics "Hot Spots" Program (Assembly Bill 2588). HARP combines the tools needed to implement the requirements of AB 2588, such as reporting a facilities emissions inventory, determining a facilities prioritization score, conducting air dispersion modeling, and performing a facility HRA, and incorporates the information presented in the OEHHA 2015 Guidance Manual. HARP can also be used for conducting HRAs used in other programs such as for CEQA assessments. HARP can only calculate risk for pollutants that have health values approved for use in the AB 2588 program (CARB 2018c).

A HRA was performed using AERMOD and HARP to estimate the maximum individual cancer risk and the chronic Hazard Index for residential and worker receptors as a result of proposed project construction and operation. See Section 4.2.4, Impacts Analysis of the EIR and Appendix F.

While a HRA can be feasibly conducted for TACs and air districts, such as the SCAQMD, have established significance thresholds for TAC exposure, a similar analysis cannot be conducted for criteria air pollutants as current modeling tools, such as AERMOD and HARP, are not set-up to estimate health effects from criteria air pollutants.

Reference Exposure Levels

Dose-response assessment describes the quantitative relationship between the amount of exposure to a substance (the dose) and the incidence or occurrence of an adverse health impact (the response) (OEHHA 2015). Dose-response information for noncancer health effects is used to determine Reference Exposure Levels (RELs). Inhalation RELs are air concentrations or doses at or below which adverse noncancer health effects are not expected even in sensitive members of the general population under specified exposure scenarios. The hazard index target organs for the inhalation RELs include: respiratory system/eyes for O_3, respiratory system for NO_2, cardiovascular system for CO, and respiratory system for SO_2 (OEHHA 2016). The acute RELs are for infrequent 1-hour exposures that occur no more than once every two weeks in a given year, although this time frame of exposure does not necessarily apply to chemicals that can bio-accumulate (e.g., dioxins and furans, PCBs, and various metals). The chronic RELs are for 24-hour per day exposures for at least a significant fraction of a lifetime, defined as about 8 years (≥12% of a 70 year lifespan). The 8-hour RELs are for repeated 8-hour exposures for a significant fraction of a lifetime such as the exposures that offsite workers might typically receive.

The first step in determining an acute, 8-hour, or chronic REL is to determine a point of departure. The point of departure is preferably determined by the benchmark concentration procedure applied to human or animal studies, but if this method of calculation cannot be used with a particular data set, a no observed adverse effect level (NOAEL) or lowest observed adverse effect level (LOAEL) may be used as the point of departure (OEHHA 2015). The benchmark concentration method (also referred to as the benchmark dose method for oral exposures) is a preferred method to estimate a point of departure because it takes all of the available dose-response data into account to statistically estimate, typically, a 5% response rate.

It should be emphasized that exceeding the acute or chronic REL does not necessarily indicate that an adverse health impact will occur. The REL is not the threshold where population health effects would first be seen. However, levels of exposure above the REL have an increasing, but undefined, probability of resulting in an adverse health impact, particularly in sensitive individuals (e.g., depending on the toxicant, the very young, the elderly, pregnant women, and those with acute or chronic illnesses) (OEHHA 2015). The significance of exceeding the REL is dependent on the seriousness of the health endpoint, the strength and interpretation of the health studies, the magnitude of combined safety factors, and other considerations. In addition, there is a possibility that a REL may not be protective of certain small, unusually sensitive human subpopulations. Such subpopulations can be difficult to identify and study because of their small numbers, lack of knowledge about toxic mechanisms, and other factors. It may be useful to consult OEHHA staff when a REL is exceeded (hazard quotient or hazard index is greater than 1.0).

By definition, an acute REL is an exposure that is not likely to cause adverse health effects in a human population, including sensitive subgroups, exposed to that concentration (in units of micrograms per cubic meter or $\mu g/m^3$) for the specified exposure duration on an intermittent basis (OEHHA 2015). All criteria air pollutants have established acute RELs by OEHHA except for PM_{10} and $PM_{2.5}$ because PM in and of itself does not have known acute or chronic effects, rather the components of PM (including TACs) have the known effects. No chronic RELs have been established for criteria air pollutants because the epidemiological studies needed to establish the long-term health

effects have not been conducted mainly due to the complexity needed to isolate an individual criteria air pollutant from ambient air and conduct a long-term exposure experiment.

As discussed previously, it is possible using air dispersion models (such as AERMOD) to estimate the concentration of a primary air pollutant emitted from a project from various sources. This concentration could then be compared to the REL for each criteria air pollutant. However, even if a REL is exceeded, the conclusion would be an increasing but undefined probability of resulting in an adverse health impact. Therefore, the conclusion would not be meaningful in the context of CEQA and the Friant Ranch decision.

Regional Photochemical Models

Air districts, such as the SCAQMD, use photochemical air quality models for regional air quality planning. The following discussion of photochemical air quality models is derived from EPA's Support Center for Regulatory Atmospheric Modeling (SCRAM), Photochemical Air Quality Modeling summary (EPA 2017b):

Photochemical air quality models have become widely recognized and routinely utilized tools for regulatory analysis and attainment demonstrations by assessing the effectiveness of control strategies. These photochemical models are large-scale air quality models that simulate the changes of pollutant concentrations in the atmosphere using a set of mathematical equations characterizing the chemical and physical processes in the atmosphere. These models are applied at multiple spatial scales from local, regional, national, and global.

There are two types of photochemical air quality models commonly used in air quality assessments: the Lagrangian trajectory model that employs a moving frame of reference, and the Eulerian grid model that uses a fixed coordinate system with respect to the ground. Earlier generation modeling efforts often adopted the Lagrangian approach to simulate the pollutants formation because of its computational simplicity. The disadvantage of Lagrangian approach, however, is that the physical processes it can describe are somewhat incomplete. Most of the current operational photochemical air quality models have adopted the three-dimensional Eulerian grid modeling mainly because of its ability to better and more fully characterize physical processes in the atmosphere and predict the species concentrations throughout the entire model domain. Several photochemical air quality models are summarized below:

Community Multiscale Air Quality (CMAQ): The CMAQ modeling system includes state-of-the-science capabilities for conducting urban-to-regional-to-hemispheric scale simulations of multiple air quality issues, including tropospheric O_3, fine particles, TACs, acid deposition, and visibility degradation. CMAQ brings together three kinds of models: (1) Meteorological models to represent atmospheric and weather activities, (2) Emission models to represent man-made and naturally-occurring contributions to the atmosphere, and (3) An air chemistry-transport model to predict the atmospheric fate of air pollutants under varying conditions (EPA 2018d).

Comprehensive Air Quality Model with extensions (CAMx): The CAMx model simulates air quality over many geographic scales. The model treats a wide variety of inert and chemically active pollutants, including O_3, PM, inorganic and organic $PM_{2.5}$/PM_{10}, and mercury and other toxics. CAMx also has plume-in-grid and source apportionment capabilities.

As explained in the Regulatory Impact Analysis of the Final Revisions to the National Ambient Air Quality Standards for Ground-Level Ozone: "CAMx is a three-dimensional grid-based Eulerian air quality model

designed to estimate the formation and fate of oxidant precursors, primary and secondary particulate matter concentrations, and deposition over regional and urban spatial scales (e.g., over the contiguous U.S.) (EPA 2015a). Because it accounts for spatial and temporal variations as well as differences in the reactivity of emissions, CAMx is useful for evaluating the impacts of the control strategies on ozone concentrations" (EPA 2015a).

Regional Modeling System for Aerosols and Deposition (REMSAD): REMSAD was designed to calculate the concentrations of both inert and chemically reactive pollutants by simulating the physical and chemical processes in the atmosphere that affect pollutant concentrations over regional scales. It includes those processes relevant to regional haze, PM, and other airborne pollutants, including soluble acidic components and mercury.

Urban Airshed Model Variable Grid (UAM-V): The UAM-V Photochemical Modeling System was a pioneering effort in photochemical air quality modeling in the early 1970s and has been used widely for air quality studies focusing on O_3. It is a three-dimensional photochemical grid model designed to calculate the concentrations of both inert and chemically reactive pollutants by simulating the physical and chemical processes in the atmosphere that affect pollutant concentrations. This model is typically applied to model air quality "episodes" - periods during which adverse meteorological conditions result in elevated O_3 pollutant concentrations.

As explained in the SJVAPCD brief and noted previously, running the photochemical grid model used for predicting O_3 attainment with the emissions solely from an individual project like the Friant Ranch project or the proposed project is not likely to yield valid information given the relative scale involved. In addition, and similarly noted previously, even if local increases in concentrations of pollutants can be estimated, there is currently no way to accurately correlate that increase in concentration to a specific health effect as current models are not accurate when applied at the local level. Accordingly, use of photochemical models have not been demonstrated to provide reliable and meaningful results for an individual project.

Methodology for Estimating Premature Deaths Associated with Long-term $PM_{2.5}$ Exposure

CARB has developed a methodology to estimate premature deaths from large amounts of $PM_{2.5}$ (CARB 2008a). Regarding the general relationship (relative risk) for use in California, the methodology document states: "From the procedures described in Section II.D, the central estimate of the relative risk of premature death is 10 percent per 10 µg/m^3 increase in $PM_{2.5}$ exposure, with a 3 to 20 percent confidence interval" (CARB 2008a).

The SCAQMD used the CARB methodology to predict impacts from three very large power plants, which ranged from 723 to 1,837 pounds of $PM_{2.5}$ per day, and determined mortality ranging from a low of 0.05 persons per year to a high of 1.77 persons per year (SCAQMD 2015).[6] However, the SCAQMD brief states, "the primary author of the CARB methodology has reported that this $PM_{2.5}$ health impact methodology is not suited for small projects and may

[6] Maximum daily mitigated $PM_{2.5}$ emissions during proposed project construction is estimated to be approximately 11 pounds per day (see Table 4.2-14, Estimated Maximum Daily Construction Criteria Air Pollutant Emissions - Mitigated). During proposed project operation, estimated maximum daily (unmitigated) $PM_{2.5}$ emissions is approximately 22 pounds per day (see Table 4.2-8, Estimated Maximum Daily Operational Emissions). Accordingly, the proposed project contribution of $PM_{2.5}$ emissions is substantially less than the three power plants the SCAQMD evaluated premature deaths from.

yield unreliable results due to various uncertainties" (SCAQMD 2015). Among these uncertainties are the representativeness of the population used in the methodology, and the specific source of PM and the corresponding health impacts (SCAQMD 2015). Furthermore, in regards to evaluating the potential for application of a concentration-response function, such as the one CARB developed, to an individual project, peer-reviewers of the CARB study noted specific concerns about applying the CARB methodology to specific emission sources (even large-scale sources such as the ports) (Environ 2011). As noted in the 2008 CARB study (Environ 2011):

- Small population samples may introduce systemic uncertainties in exposure and susceptibility, and the age/sex distribution of the population should be adjusted if the county-wide incidence rate is applied to smaller areas;
- Population demographics should be the same as those in the concentration-response function;
- The effect of population size is important and is a function of variability and confidence intervals of the underlying epidemiological studies; and
- The concentration-response function will vary based on the source of PM and other caveats, including those above.

SCAQMD staff concluded that use of this methodology for a small source could result in unreliable findings and would not provide meaningful information; while it may be technically possible to plug the data into the methodology, the results would not be considered reliable or meaningful (SCAQMD 2015).

EPA Photochemical Grid Models for Single-Source Ozone and Secondary $PM_{2.5}$ Impacts for Permitting

On January 17, 2017, EPA published (82 FR 5182) revisions to the Guideline on Air Quality Models, referred to as Appendix W, including criteria and process steps for choosing single-source analytical techniques or models to estimate O_3 impacts from precursor NO_x and VOC emissions and concentrations of direct and secondarily-formed $PM_{2.5}$. EPA has developed a two-tiered demonstration approach for addressing single-source impacts on O_3 and secondary $PM_{2.5}$. Tier 1 demonstration involve use of technically credible relationships between emissions and ambient impacts based on existing modeling studies, and Tier 2 demonstration involves case-specific application of chemical transport modeling (e.g., with an Eulerian grid or Lagrangian model).

While EPA has recently published PSD SILs for O_3 and $PM_{2.5}$, April 17, 2018, EPA has acknowledged the complexity of modeling single-source project impacts with the development of a tiered approach discussed above and detailed in Appendix W. While the development of PSD SILs and Appendix W modeling methodology provides evidence of potential modeling to support the evaluation of project impacts under CEQA reviews, there are technical differences between stationary source projects regulated under the PSD program compared to land use development projects regulated under CEQA that result in uncertainty of results, discussed as follows.

As described in the EPA Memorandum, August 4, 2017, "*Use of Photochemical Grid Models for Single-Source Ozone and Secondary $PM_{2.5}$ impacts for Permit Program Related Assessments and for NAAQS Attainment Demonstrations for Ozone, $PM_{2.5}$ and Regional Haze*," there are multiple criteria that need to be satisfied to provide demonstration that a modeling system is fit for the purpose of supporting permitting demonstrations of NAAQS attainment, including:

1. The model or technique has received a scientific peer review;

2. The model or technique can be demonstrated to be applicable to the problem on a theoretical basis;

3. The database which are necessary to perform the analysis are available and adequate;

4. Appropriate performance evaluations of the model or technique have shown that the model or technique is not inappropriately biased for regulatory application; and

5. A protocol on methods and procedures to be followed has been established.

The EPA has assessed these five criteria in support of Appendix W changes to include criteria and process steps for choosing single-source analytical techniques or models to estimate O_3 effects from NO_x and VOC emissions and to estimate concentrations direct and secondarily-formed $PM_{2.5}$. However, this assessment has been performed relative to stationary sources and includes Criteria 4 performance evaluations of stationary sources only. In development of the Modeled Emission Rates for Precursors (MERPs) for the PSD Tier 1 Demonstration Tool, EPA modeled theoretical single-sources projects located throughout the continental United States. These projects were modeled at a low and high stack height of 1 meter (m) and 90 m, respectively; stack diameter of 5 m; exit temperature of 100 Fahrenheit (°F); and exit velocity of 27 meters per second (89 feet per second). The hypothetical sources included multiple emission rates: 100, 300, 500, 1,000, 2,000, and 3,000 tons per year.

CEQA requires review of all project-generated criteria air pollutant emissions, including emissions resulting from stationary sources, mobile sources, construction sources, operational, and maintenance activities and includes secondarily generated emissions from energy usage, water, solid waste, and wastewater generation. Many CEQA project emissions, like those for the proposed project, are dominated by mobile sources and fugitive emission sources with essentially no vertical plume velocity and have very different dispersion characteristics as compared to PSD major sources like those modeled for MERPs. Therefore, there is uncertainty of the results of applying performance evaluations from the PSD project examples to CEQA project emissions given the complexity of modeling the photochemical reactions resulting in O_3 formation and secondary $PM_{2.5}$, as discussed above. At this time, to our knowledge, chemical transport modeling of the formation of O_3 and $PM_{2.5}$ has not been proven under performance evaluations to show that the available modeling techniques are not inappropriately biased for CEQA projects.

Environmental Benefits Mapping and Analysis Program – Community Edition (BenMAP-CE)

The environmental Benefits Mapping and Analysis Program—Community Edition (BenMAP-CE) estimates the number and economic value of health effects resulting from changes in air pollution concentrations (EPA 2018e). The open-source BenMAP-CE tool replaces the proprietary version of the program (BenMAP) that the EPA first developed in 2003 to analyze national-scale air quality policies. These analyses include EPA's health benefits assessments for the NAAQs for PM (2006, 2012) and O_3 (2008, 2010), as well as the Locomotive Marine Engine Rule (2008). EPA and its partners designed BenMAP-CE to serve the analytical needs of a range of users, including scientists, policy analysts, and decision makers. Most users apply the BenMAP-CE tool to answer one of two types of questions (EPA 2018e):

1) What are the human health and economic benefits associated with a policy improving air quality?

and/or

2) What is the human health burden attributable to total air pollution levels?

The health impact function in BenMAP-CE incorporates four key sources of data: (i) modeled or monitored air quality changes, (ii) population, (iii) baseline incidence rates, and (iv) an effect estimate. When using BenMAP-CE on a local scale, data typically used, which needs to match the grid definition,[7] include air quality modeling, incidence data, and population data. While BenMAP-CE can be used on a local-scale if accurate input information is available, using BenMAP-CE for a project-level analysis in CEQA has not yet been demonstrated to provide meaningful results in a CEQA context.

CARB conducted a health risk assessment for the West Oakland community in 2008 ("Diesel Particulate Matter HRA for the West Oakland Community"). The study was designed to evaluate the emissions impacts and the potential public health risk to both residents of West Oakland and the broader Bay Area from exposures to diesel PM from the Maritime Port of Oakland, the Union Pacific Railroad, and additional sources adjacent to the West Oakland Community (i.e., ocean-going vessels, commercial harbor craft, cargo handling equipment, locomotives, Amtrak maintenance facility, major construction projects, stationary point sources, on-road trucks, and truck-based businesses and distribution centers), and used BenMAP to estimate non-cancer health effects (CARB 2008b). CARB staff included only directly emitted PM and did not account for secondary PM formed from NO_x and SO_x emissions. As explained in the West Oakland study, "Risk assessment is a complex process which requires the integration of many variables and assumptions. Due to these variables and assumptions, there are uncertainties and limitations with the results. Generally, the assumptions are designed to be health protective so that the estimates of risks to individuals are not underestimated. Uncertainty associated with the key elements used in a risk assessment include uncertainty in the health risk values, the air dispersion modeling used to predict diesel PM concentrations, and the model input parameters" (CARB 2008b).

Furthermore, in regards to a conducting health impact assessment, in general, as the spatial scale decreases, national or "generic" data may become less representative (Hubbell 2009). At the same time, local data may not be available or may be more uncertain given smaller sample sizes (Hubbell 2009). In addition, there is a tension between developing assessments that are locally meaningful and using methods that are consistent with other health impact assessments, so that results can be compared across settings (Hubbell 2009).

Benefit or Incidents per Ton Factors

In 2013, EPA published a Technical Support Document (TSD) describing an approach for estimating the average avoided human health impacts, and monetized benefits related to emissions of $PM_{2.5}$ and $PM_{2.5}$ precursors,

[7] A BenMAP-CE Grid Definition provides a method of breaking a geographic region into areas of interest (Grid Cells) in conducting an analysis (EPA 2018e). This can be done in two ways - by loading a Shapefile (a particular type of GIS file) or by specifying a regularly shaped grid pattern. These are referred to as Shapefile Grid Definitions and Regular Grid Definitions, respectively. Typically a Shapefile Grid Definition is used when the areas of interest are political boundaries with irregularly shaped borders, while a Regular Grid Definition is used when the areas of interest are uniformly shaped grids (e.g., rectangles) (EPA 2018e).

including NO_x and SO_2, from 17 sectors[8] using the results of source apportionment photochemical modeling. In 2017, EPA released a new version of its BenMAP-CE tool that incorporated new demographic and economic parameters. Using the 2017 version of BenMAP-CE, EPA re-calculated the $PM_{2.5}$ benefit per ton values.

The procedure for calculating benefit per ton coefficients follows three steps (EPA 2018f):

1. Using source apportionment photochemical modeling, predict annual average ambient concentrations of primary $PM_{2.5}$, nitrate and sulfate attributable to each of 17 emission sectors across the Continental U.S.

2. For each sector, estimate the health impacts, and the economic value of these impacts, associated with the attributable ambient concentrations of primary $PM_{2.5}$, sulfate and nitrate $PM_{2.5}$ using BenMAP v1.3.71.[9]

3. For each sector, divide the $PM_{2.5}$-related health impacts attributable to each type of $PM_{2.5}$, and the monetary value of these impacts, by the level of associated precursor emissions. That is, primary $PM_{2.5}$ benefits are divided by direct $PM_{2.5}$ emissions, sulfate benefits are divided by SO_2 emissions, and nitrate benefits are divided by NO_x emissions.

The benefit per ton analysis includes many data sources as inputs, including emission inventories, air quality data from models (with their associated parameters and inputs), population data, health effect estimates from epidemiology studies, and economic data for monetizing benefits (EPA 2018e). Each of these inputs may be uncertain and would affect the benefits estimate (EPA 2018e). When the uncertainties from each stage of the analysis are compounded, small uncertainties can have large effects on the total quantified benefits (EPA 2018f).

The limitations and uncertainties discussion in the benefit per ton analysis cautions that: "Great care should be taken in applying these estimates to emission reductions occurring in any specific location, as these are all based on national emission reduction assumptions and therefore represent an average benefit per ton over the entire United States. The benefit per ton for emission reductions in specific locations may be very different from the estimates presented here. In addition, estimates do not capture important differences in marginal benefit per ton that may exist due to different combinations of reductions (i.e., all other sectors are held constant) or nonlinearities within a particular pollutant (e.g., non-zero second derivatives with respect to emissions)" (EPA 2018f).

CARB has similarly developed incidents per ton values to evaluate costs versus benefits of air quality rules and regulations. Examples include the economic valuation during rulemaking for the Ports and Goods Movement in California (CARB 2006) and the Truck and Bus Regulation, the Drayage Truck Regulation, and the Tractor-Trailer Greenhouse Gas Regulation (CARB 2010).

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[8] The 17 sectors include locomotives and marine vessels, area sources, cement kilns, coke ovens, electric arc furnaces, electricity generating units, ferroalloy facilities, industrial point sources, integrated iron and steel facilities, iron and steel facilities, non-road mobile sources, ocean-going vessels, on-road mobile sources, pulp and paper facilities, refineries, residential wood combustion, and taconite mines (EPA 2018f).

[9] In this stage, EPA estimated the $PM_{2.5}$-related impacts associated with changes in directly emitted $PM_{2.5}$, nitrate and sulfate separately, so that they may ultimately calculate the benefit per ton reduced of the corresponding $PM_{2.5}$ precursor, or directly emitted $PM_{2.5}$, in step 3. When estimating these impacts, the EPA applied effect coefficients that relate changes in total $PM_{2.5}$ mass to the risk of adverse health outcomes; the EPA did not apply effect coefficients that are differentiated by $PM_{2.5}$ specie.

CARB staff assessed the potential health effects associated with exposure to air pollutants arising from ports and goods movement in California focusing on PM and O_3, as they represent the majority of known risk associated with exposure to outdoor air pollution and there have been sufficient studies performed to allow quantification of the health effects associated with the referenced emission sources (CARB 2006). The assessment quantifies the premature deaths and increased cases of disease linked to exposure to PM and O_3 from ports and goods movement, and provides an economic valuation of these health effects.

The study noted that there are significant uncertainties involved in quantitatively estimating the health effects of exposure to outdoor air pollution (CARB 2006), The various uncertainties and limitations include uncertainties related to emissions estimation, exposure estimates and populations, concentration-response functions, baseline rates of mortality and morbidity, health effects of sulfate exposure, and unquantified adverse effects. Many of these elements have a factor-of-two uncertainty; over time, some of these uncertainties may be reduced as new research is completed. However, significant uncertainty will remain in any estimate made over the foreseeable future (CARB 2006).

The benefit or incidents per ton factor assessment, while useful for economic valuations during rulemaking for regulatory controls that would reduce substantial quantities of air pollutant emissions, in its current form, has too substantial of uncertainties when applied to individual projects to be used for CEQA analyses with a level of accuracy. Therefore, as currently used by CARB and EPA, the benefit or incidents per ton factor assessment is determined to not provide reliable and meaningful results for individual projects.

Conclusion

As explained above, there are numerous scientific and technological complexities associated with correlating criteria air pollutant emissions from an individual project to specific health effects or potential additional nonattainment days. Neither the SJVAPCD nor the SCAQMD have identified a method to connect project-generated criteria air pollutant emissions to specific health effects for individual development projects. Currently, there are no modeling tools that could provide reliable and meaningful additional information regarding health effects from criteria air pollutants generated by individual projects, as explained above. Instead, air districts have set thresholds that seek to minimize concentrations of criteria air pollutants through the control of directly emitted emissions and precursors.

5 Evaluation of the Proposed Project's Health Effects

As explained in Section 2, the EPA and CARB have established AAQS at levels above which concentrations could be harmful to human health and welfare, with an adequate margin of safety. Further, California air districts (like SCAQMD) have established emission-based thresholds that provide project-level estimates of criteria air pollutant quantities that air basins can accommodate without affecting the attainment dates for the AAQS. Accordingly, elevated levels of criteria air pollutants as a result of a proposed project's emissions could cause adverse health effects associated with these pollutants.

In this case, operation of the proposed project is estimated to exceed SCAQMD thresholds for NO_x before and after mitigation is incorporated. As shown in Table 2 (Section 2), the SCAB is designated as a nonattainment area for O_3 under the NAAQS and the CAAQS.

As discussed in Section 3, health effects associated with O_3 include respiratory symptoms, worsening of lung disease leading to premature death, and damage to lung tissue (CARB 2019h). VOCs and NO_x are precursors to O_3, for which the SCAB is designated as nonattainment with respect to the NAAQS and CAAQS. The contribution of VOCs and NO_x to regional ambient O_3 concentrations is the result of complex photochemistry. The increases in O_3 concentrations in the SCAB due to O_3 precursor emissions tend to be found downwind from the source location to allow time for the photochemical reactions to occur. However, the potential for exacerbating excessive O_3 concentrations would also depend on the time of year that the NO_x emissions would occur because exceedances of the O_3 AAQS tend to occur between April and October when solar radiation is highest. The holistic effect of a single project's emissions of O_3 precursors is speculative because of the lack of quantitative methods to assess this impact. Nonetheless, because NO_x emissions associated with proposed project operation would exceed the SCAQMD mass daily construction threshold, it could minimally contribute to regional O_3 concentrations and the associated health effects.

Health effects associated with NO_x include lung irritation and enhanced allergic responses (see Section 3; CARB 2019h). Health impacts that result from NO_2 and NO_x include respiratory irritation. Although the proposed project operations would generate NO_x emissions that would exceed the SCAQMD mass daily thresholds, it is unlikely that operation of the proposed project would contribute to exceedances of the NAAQS and CAAQS for NO_2 because the SCAB is designated as in attainment of the NAAQS and CAAQS for NO_2 and the existing NO_2 concentrations in the area are well below the NAAQS and CAAQS standards. Nonetheless, because there are nearby receptors that could be affected by NO_x, the proposed project could result in potential health effects associated with NO_2 and NO_x.

Health effects associated with CO include chest pain in patients with heart disease, headache, light-headedness, and reduced mental alertness (See Section 3; CARB 2019h). CO tends to be a localized impact associated with congested intersections. The associated potential for CO hotspots were discussed in Section 4.2.4 Impacts Analysis, AQ-3, and are determined to be a less-than-significant impact.

In summary, because operation of the proposed project could result in exceedances of the SCAQMD significance thresholds for NO_x, the Project would potentially result in health effects associated with this pollutant, as explained in Section 3. Because the proposed project would not exceed the SCAQMD thresholds for VOC, CO, SO_x, PM_{10}, and $PM_{2.5}$, and because the SCAQMD thresholds are based on levels that the SCAB can accommodate without affecting the attainment date for the AAQS and the AAQS are established to protect public health and welfare, the proposed project is not anticipated to result in health effects associated with VOC, CO, SO_x, PM_{10}, or $PM_{2.5}$. At the time of preparation of this memorandum, there are no modeling tools, as explained above, that can provide reliable and meaningful additional information regarding the potential health effects or potential for further nonattainment days from criteria air pollutants generated by the proposed project.

6 References

CAPCOA (California Air Pollution Control Officers Association). 2017. **Cal**ifornia **E**missions **E**stimator **Mod**el® (CalEEMod). http://www.caleemod.com/

California Air Resources Board (CARB). 2006. Background Materials on Air Emissions, Health Impacts, and Economic Impacts, (c) Quantification of the Health Impacts and Economic Valuation of Air Pollution from

Ports and Goods Movement in California, March 21, 2006. Appendix A of the Final Emission Reduction Plan for Ports and Goods Movement.

CARB. 2008a. Methodology for Estimating Premature Deaths Associated with Long-term Exposure to Fine Airborne Particulate Matter in California. October. https://www.arb.ca.gov/research/health/pm-mort/PMmortalityreportFINALR10-24-08.pdf

CARB. 2008b. Diesel Particulate Matter HRA for the West Oakland Community. https://www.arb.ca.gov/ch/communities/ra/westoakland/documents/westoaklandreport.pdf

CARB. 2010. Initial Statement of Reasons for Proposed Rulemaking: Proposed Amendments to the Truck and Bus Regulation, the Drayage Truck Regulation and the Tractor-Trailer Greenhouse Gas Regulation - Appendix J: Health Benefits Associated with Reductions in Diesel PM Emissions from In-Use On-Road Heavy-Duty Diesel-Fueled Vehicles. October 2010. https://www.arb.ca.gov/regact/2010/truckbus10/truckbus10.htm

CARB. 2016. "Ambient Air Quality Standards." May 4, 2016. http://www.arb.ca.gov/research/aaqs/aaqs2.pdf.

CARB. 2017a. "California Ambient Air Quality Standards (CAAQS)." Last reviewed August 10, 2017. https://www.arb.ca.gov/research/aaqs/caaqs/caaqs.htm

CARB. 2017b. Inhalable Particulate Matter and Health ($PM_{2.5}$ and PM_{10}). https://www.arb.ca.gov/research/aaqs/common-pollutants/pm/pm.htm.

CARB. 2018a. "Area Designation Maps/State and National." Last reviewed December 28, 2018. http://www.arb.ca.gov/desig/adm/adm.htm.

CARB. 2018b. California Emissions Projection Analysis Model (CEPAM): 2016 SIP - Standard Emission Tool Emission Projections by Summary Category. Last updated July 18, 2018. https://www.arb.ca.gov/app/emsinv/fcemssumcat/fcemssumcat2016.php

CARB. 2018c. Hotspots Analysis and Reporting Program (HARP). FAQs. Last reviewed June 11, 2018. https://www.arb.ca.gov/toxics/harp/harp.htm

CARB. 2019a. "Air Quality Standards". https://ww2.arb.ca.gov/resources/background-air-quality-standards

CARB. 2019b. "National Ambient Air Quality Standards." https://ww2.arb.ca.gov/resources/national-ambient-air-quality-standards

CARB. 2019c. "Ozone & Health." https://ww2.arb.ca.gov/resources/ozone-and-health

CARB. 2019d. "Nitrogen Dioxide & Health." https://ww2.arb.ca.gov/resources/nitrogen-dioxide-and-health

CARB. 2019e. "Carbon Monoxide & Health." https://ww2.arb.ca.gov/resources/carbon-monoxide-and-health

CARB. 2019f. "Sulfur Dioxide & Health." https://ww2.arb.ca.gov/resources/sulfur-dioxide-and-health

CARB. 2019g. "Glossary of Air Pollutant Terms." Accessed January 2019. http://www.arb.ca.gov/html/gloss.htm

CARB. 2019h. "Common Air Pollutants." https://ww2.arb.ca.gov/resources/common-air-pollutants

Environ. 2011. Final Subsequent Mitigated Negative Declaration for Warren E&P, Inc. WTU Central Facility, New Equipment Project. Prepared for the South Coast Air Quality Management District. July 2011.

EPA (U.S. Environmental Protection Agency). 2004. Air Quality Criteria for Particulate Matter, Vol. 1 and 2. EPA/600/P-99/002aF. National Center For Environmental Assessment, Office of Research and Development, U.S. Environmental Protection Agency, Research Triangle Park, NC. October 2004.

EPA. 2008. Final Ozone NAAQS Regulatory Impact Analysis. March 2008. https://www3.epa.gov/ttnecas1/regdata/RIAs/452_R_08_003.pdf

EPA. 2009. "Integrated Science Assessment for Particulate Matter." EPA/600/R-08/139F. https://cfpub.epa.gov/ncea/risk/recordisplay.cfm?deid=216546

EPA. 2013. "Integrated Science Assessment of Ozone and Related Photochemical Oxidants." EPA/600R-10/076F. https://cfpub.epa.gov/ncea/isa/recordisplay.cfm?deid=247492

EPA. 2015a. Regulatory Impact Analysis of the Final Revisions to the National Ambient Air Quality Standards for Ground-Level Ozone. https://www3.epa.gov/ttn/ecas/docs/ria/naaqs-o3_ria_final_2015-09.pdf

EPA. 2015b. Report on the Environment - Particulate Matter Emissions. https://cfpub.epa.gov/roe/indicator.cfm?i=19

EPA. 2016. "Integrated Science Assessment for Oxides of Nitrogen-Health Criteria (2016 Final Report)." U.S. EPA, EPA/600/R-15/068, 2016. https://www.epa.gov/isa/integrated-science-assessment-isa-nitrogen-dioxide-health-criteria

EPA. 2017a. Revisions to the Guideline on Air Quality Models: Enhancements to the AERMOD Dispersion Modeling System and Incorporation of Approaches To Address Ozone and Fine Particulate Matter. Federal Register Vol. 82, No. 10. January 17. https://www3.epa.gov/ttn/scram/guidance/guide/appw_17.pdf

EPA. 2017b. Support Center for Regulatory Atmospheric Modeling (SCRAM) - Photochemical Air Quality Modeling. https://www.epa.gov/scram/photochemical-air-quality-modeling

EPA. 2018a. "Process of Reviewing the National Ambient Air Quality Standards." Last updated July 10, 2018. https://www.epa.gov/criteria-air-pollutants/process-reviewing-national-ambient-air-quality-standards

EPA. 2018b. "EPA Region 9 Air Quality Maps and Geographic Information." Last updated September 28, 2018. http://www.epa.gov/region9/air/maps/.

EPA. 2018c. "Ground-level Ozone Basics." Last updated October 31, 2018. https://www.epa.gov/ground-level-ozone-pollution/ground-level-ozone-basics

EPA. 2018d. Community Multiscale Air Quality (CMAQ) Models. https://www.epa.gov/cmaq/cmaq-models-0

EPA. 2018e. Environmental Benefits Mapping and Analysis Program – Community Edition User's Manual. July 2018. https://www.epa.gov/sites/production/files/2015-04/documents/benmap-ce_user_manual_march_2015.pdf

EPA. 2018f. Technical Support Document Estimating the Benefit per Ton of Reducing $PM_{2.5}$ Precursors from 17 Sectors. https://www.epa.gov/sites/production/files/2014-10/documents/sourceapportionmentbpttsd.pdf

Hubbell, Bryan, Fann, Neal, Levy, Jonathan. 2009. Methodological considerations in developing local-scale health impact assessments: balancing national, regional, and local data. https://link.springer.com/article/10.1007%2Fs11869-009-0037-z#Sec7

OEHHA (Office of Environmental Health Hazard Assessment). 2015. Air Toxics Hot Spots Program Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessments. February 2015. https://oehha.ca.gov/air/crnr/notice-adoption-air-toxics-hot-spots-program-guidance-manual-preparation-health-risk-0.

OEHHA. 2016. OEHHA Acute, 8-hour and Chronic Reference Exposure Level (REL) Summary. Last updated June 28, 2016. https://oehha.ca.gov/air/general-info/oehha-acute-8-hour-and-chronic-reference-exposure-level-rel-summary

NRC (National Research Council). 2005. *Interim Report of the Committee on Changes in New Source Review Programs for Stationary Sources of Air Pollutants*. Washington, DC: The National Academies Press. https://doi.org/10.17226/11208.

SCAQMD (South Coast Air Quality Management District). 2008. *Final Localized Significance Threshold Methodology*. Revised July 2008.

SCAQMD. 2015. Brief of Amicus Curiae in Support of Neither Party, *Sierra Club v. County of Fresno*, Case No. S219783 (filed Apr. 13, 2015). https://www.courts.ca.gov/documents/9-s219783-ac-south-coast-air-quality-mgt-dist-041315.pdf.

SCAQMD. 2017. 2016 Air Quality Management Plan Appendix I, Health Effects. March 2017. https://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2016-air-quality-management-plan/final-2016-aqmp/appendix-i.pdf?sfvrsn=14

Sierra Club v. County of Fresno. 2018. Case No. S219783. December 24, 2018. http://www.courts.ca.gov/opinions/documents/S219783A.PDF

SJVAPCD (San Joaquin Valley Air Pollution Control District). 2014. APR 1925 – Policy for District Rule 2201 AAQA Modeling. April 2014. http://www.valleyair.org/policies_per/policies/apr-1925.pdf

SJVAPCD. 2015. Brief of Amicus Curiae in Support of Defendant And Respondent, County Of Fresno, And Real Party In Interest And Respondent, Friant Ranch, L.P., Sierra Club v. County of Fresno, Case No. S219783 (filed Apr. 13, 2015). https://www.courts.ca.gov/documents/7-s219783-ac-san-joaquin-valley-unified-air-pollution-control-dist-041315.pdf