Appendix C AQGHG Modeling Data

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CalEEMod Project Characteristics Inputs

Project Address:	1221 Monterey Road, Glendale
Project Location:	Los Angeles-- South Coast 91206
Climate Zone:	12
Land Use Setting:	Urban
Operational Year:	2018
Utility Company:	Southern California Edison
Air Basin:	South Coast Air Basin
Air District:	SCAQMD
SRA:	7

Total Project Site Acreage:	9.93	acres
Acreage to be distrubed:	3.85	acres

Components*	**SQFT**	**Acres**
Storage Building**	1,645	0.04
Basketball Courts	42,145	0.97
New Athletic Fields	100,000	2.30
Remaining Field and Landscaping	23,916	0.55
	Total:	**3.85**

**Square footage based on aerial photograph of site*

*** The Storage Building/Restrooms would be hauled onto the site rather than constructed.*

CalEEMod Land Use Inputs

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Square Feet
Non-Parking Asphalt	Parking	Other Asphalt Surfaces	42.15	1000 sqft	1.01	42,145
Landscape, Turf	Parking	Other Non-Asphalt Surfaces	123.92	1000sqft	2.84	
					3.85	acre

Soil Hauling

Construction Activity	Export Volume (CY)	Haul Truck Capacity (CY)*	Total Trip Ends	Total Days	Trip Ends/Day
Rough Grading	13,381	16	1,673	16	105

**CalEEMod Default*

Asphalt Haul

Construction Activity	Demolition Volume (ton)	Haul Truck Capacity (ton)*	Haul Distance (miles)*	Total Trip Ends	Total Days	Trip Ends/Day
Asphalt Demo Debris Haul	316	20	20	32	20	2

**CalEEMod Default*

Portable Haul

Construction Activity	Number of Prefabricated Buildings	Trips per Building	Total Haul Trips
Portable Haul	2	2	4

Architectural Coating

Non-Residential Architectural Coating

Percentage of Buildings' Interior Painted:	100%	
Percentage of Buildings' Exterior Painted:	100%	
SCAQMD Rule 1113		
Interior Paint VOC content:	50	grams per liter
Exterior Paint VOC content:	50	grams per liter

Nonresidential Structures	Land Use Square Feet	SCAQMD Factor	Total Paintable Surface Area[2]	Paintable Interior Area[1]	Paintable Exterior Area[1]
Parking and Asphalt Striping	42,145	0.06	2,529		2,529
Prefabricated Buildings	1,645	2	3,290	2,468	823

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

2 Applied CalEEMod Methodology in calculating total. The program assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage defined by the user. The default values based on SCAQMD methods used in their coating rules are 75% for the interior surfaces and 25% for the exterior shell

Construction - Unmitigated Run

SCAQMD Rule 403

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

SCAQMD Rule 1186

Clean Paved Road	9	% PM Reduction

CalEEMod Construction Phase Inputs*

5-Day Work Week/8 hours per day

Phase Name	Phase Type	Start Date	End Date	CalEEMod Total Days	Total Days
Asphalt Demo	Demolition	6/1/2018	6/28/2018	20	27
Asphalt Demo Haul	*Demolition*	*6/1/2018*	*6/28/2018*	*20*	*27*
Site Preparation	Site Preparation	6/29/2018	7/5/2018	5	6
Rough Grading	Rough Grading	7/6/2018	7/27/2018	16	21
Rough Grading Haul	*Haul*	*7/6/2018*	*7/27/2018*	*16*	*21*
Utility Trenching	Utility Trenching	7/28/2018	8/6/2018	6	9
Asphalt Paving	Asphalt Paving	8/7/2018	8/30/2018	18	23
Landscaping/Field Lighting	Construction	8/7/2018	8/30/2018	18	23
Architectural Coating	Architectural Coating	8/31/2018	9/26/2018	18	26

*CalEEMod Defaults Used

CalEEMod Construction Off-Road Equipment Inputs*

Equipment Type	CalEEMod Equipment Type	Unit Amount	Hours/Day	HP	LF	Worker Trips	Vendor Trips
Asphalt Demolition						15	
Concrete/Industrial Saws	Concrete/Industrial Saws	1	8	81	0.73		
Excavators	Excavators	3	8	158	0.38		
Rubber Tired Dozers	Rubber Tired Dozers	2	8	247	0.4		
Water Truck							4
Site Preparation						18	
Rubber Tired Dozers	Rubber Tired Dozers	3	8	247	0.4		
Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	8	97	0.37		
Water Truck							4
Grading						15	
Excavators	Excavators	1	8	158	0.38		
Graders	Graders	1	8	187	0.41		
Rubber Tired Dozers	Rubber Tired Dozers	1	8	247	0.4		
Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	3	8	97	0.37		
Water Truck							4
Utility Trenching						5	
Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8	97	0.37		
Water Truck							4
Landscaping/Field Lighting						18	
Rubber Tired Loaders	Rubber Tired Loaders	1	8	247	0.3953		
Cranes	Cranes	1	6	231	0.2881		
Forklifts	Forklifts	1	6	89	0.201		
Paving						20	
Cement and Mortar Mixers	Cement and Mortar Mixers	2	6	9	0.56		
Pavers	Pavers	1	8	130	0.42		
Paving Equipment	Paving Equipment	2	6	132	0.36		
Rollers	Rollers	2	6	80	0.38		
Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	8	97	0.37		
Architectural Coating						4	
Air Compressors	Air Compressors	1	6	78	0.48		

**Equipment mix, Worker Trips, and Vendor Trips based on CalEEMod default*

Pavement Volume to Weight Conversion

Duration	Total SF of Parking Lot	Assumed Thickness (foot)[1]	Debris Volume (cu. ft)	Weight of Crushed Asphalt (lbs/cf)[2]	AC Mass (lbs)	AC Mass (tons)
Demolition	42,145	0.33	14048	45	632,175	316.09

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

[2]http://www.reade.com/reade-resources/reference-educational/reade-reference-chart-particle-property-briefings/26-weight-per-cubic-foot-and-specific-gravity-metals-minerals-organics-inorganics-ceraqmics

CalEEMod Project Characteristics Inputs

Project Address:	1221 Monterey Road, Glendale
Project Location:	Los Angeles-- South Coast 91206
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Land Use Setting:	Urban
Operational Year:	2018
Utility Company:	Southern California Edison
Air Basin:	South Coast Air Basin
Air District:	SCAQMD
SRA:	7

Total Project Site Acreage:	9.93	acres
Acreage to be distrubed:	3.85	acres

CalEEMod Land Use Inputs

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Square Feet
School Buildings	Educational	Junior High School	1.65	1000 sqft	0.04	1,645
Non-Parking Asphalt	Parking	Other Asphalt Surfaces	42.1	1000 sqft	0.97	42,145
Landscape, Turf	Parking	Other Non-Asphalt Surfaces	123.9	1000sqft	2.84	0
					3.85	acre

Trip Generation

	Weekday	Weekends	
Trip Generation*	182	235	Average Daily Trips (ADT)
ITE Manual Highest Scenario Trip Rate	90.81	71.33	trips/field
Adjusted CalEEMod Trip Rate	**110.64**	**142.86**	trips/1000sqft

**Based on Traffic Impact Analysis for North Elementary School. PlaceWorks, November 2017.*
Trip rates based on ITE Trip Generation Manual 9th Edition Soccer Complex land use (code 488). Analysis uses most conservative "Highest Rate" trip generation scenario

Lighting (Electricity Use)*

Number of Fixtures	30	
Total Kilowatt	34.50	kW

	Hours Per Day	Days Per Year	Total kWh/yr
Lighting Use	5	340	58,650.00

	KWhr/size/yr	Kwh/year	KWhr/size/yr with Stadium
Lighting in CalEEMod	2.59	**4260.55**	**38,243.50**

Calculation of GHGs from Field Lighting (City of Glendale)

CO_2**	CH_4**	N_2O**	CO_2e	CO_2e
lbs/Mwh	lbs/Mwh	lbs/Mwh	lbs/Mwh	MT/Kwh
383.88	0.095	0.012	389.95	0.000177
				MT/Year
			CO2 from Lighting	**10.37**

**Global Warming Potentials from the Climate Change 2007, IPCC Fourth Assessment Report (AR4).*
***City of Glendale Power Mix from California Department of Energy. Utility Annual Power Content Labels for 2016. 2016 City of Glendale Power Content Label.*
http://www.energy.ca.gov/pcl/labels/

Solid Waste

Solid Waste Generation:	0.00	TPY

**The project would not result in an increase in long-term solid waste disposal*

Water Use

Septic Tank	0%	
Aerobic	100%	
Facultative Lagoons	0%	
Indoor Water Use:	34,025	GPY
Outdoor Water Use:	87,492	GPY

** Provided by the Applicant*

Architectural Coating

Non-Residential Architectural Coating

Percentage of Buildings' Interior Painted:	100%	
Percentage of Buildings' Exterior Painted:	100%	
SCAQMD Rule 1113		
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School Restroom and Shed	1,645	2	3,290	2,468	823

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

[2] Applied CalEEMod Methodology in calculating total. The program assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage defined by the user. The default values based on SCAQMD methods used in their coating rules are 75% for the interior surfaces and 25% for the exterior shell

Energy Mitigation

2016 Building Energy Efficiency Standards

Buildings constructed after January 1, 2017 are required to meet the 2016 Building Energy Efficiency Standards.

Non-Residential Exceed Title 24	5%	Improvement over 2013[1]

Sources:

[1] California Energy Commission. 2015a. 2016 Building Energy Efficiency Standards, Adoption Hearing Presentation. http://www.energy.ca.gov/title24/2016standards/rulemaking/documents/ June 10.

Water Mitigation

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

Changes to the CalEEMod Defaults - Fleet Mix 2018 (Proposed)

Trips 182

Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
FleetMix (Model Default)	0.548	0.046127	0.19933	0.125604	0.017697	0.005953	0.01836	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944	100%
Trips	100	8	36	23	3	1	3	5	0	0	1	0	0	182
Percent	80%			13%	8%									100%
without buses/MH	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0	0	0.004804	0.000000	0	99%
Percent	80%			13%	7%									99%
Adjusted without buses/MH	0.547972	0.046127	0.199330	0.125604	0.019358	0.006512	0.020083	0.030210	0.000000	0.000000	0.005255	0.000000	0.000000	
Percent check	80%			13%	8%									100%
Assumed Mix	98.0%			1.00%	1.00%									100%
adjusted with Assumed	0.672372	0.056599	0.244582	0.010000	0.002542	0.000855	0.002637	0.003967	0.000000	0.000000	0.006448	0.000000	0.000000	100%
Trips	122	10	45	2	0	0	0	1	0	0	1	0	0	182
Check	*178*			*2*	*2*									

Source: Traffic Impact Analysis for Wilson Middle School. PlaceWorks, November 2017.

CITY OF GLENDALE POWER CONTENT

$MTCO_2e$

Source	Percent*	Adjusted percent	Emission factor (MTCO2e/KWH)**
Coal	5.00%	5.00%	0.000981684
Large hydro	10.00%	10.00%	0
Natural gas	29.00%	29.00%	0.000387842
Nuclear	7.00%	7.00%	0
Oil	0.00%	0.00%	0.00056559
Other/unspecified	1.00%	1.00%	0.000428
Biomass	12.00%	12.00%	7.41486E-05
Geothermal	2.00%	2.00%	0.000107172
Small hydro	8.00%	8.00%	0
Solar	0.00%	0.00%	5.7828E-06
Wind	26.00%	26.00%	0
	100.00%	100.00%	

Emission factor	**0.000176880**	MTCO2e/KWH
Calculation check	0.000176880	

0.26

		CO_2	83.1
$MTCO_2e/kWh$	0.000428	CH_4	0.27
		N_2O	0.3
			83.67

**City of Glendale Power Mix from California Department of Energy. Utility Annual Power Content Labels for 2016. 2016 City of Glendale Power Content Label. http://www.energy.ca.gov/pcl/labels/*

***Global Warming Potentials from the Climate Change 2007, IPCC Fourth Assessment Report (AR4).*

CITY OF GLENDALE POWER CONTENT

$MTCO_2$

Source	Percent*	Adjusted percent	Emission factor (MTCO2/KWH)**
Coal	5.00%	5.00%	0.000974076
Large hydro	10.00%	10.00%	0
Natural gas	29.00%	29.00%	0.000387411
Nuclear	7.00%	7.00%	0
Oil	0.00%	0.00%	0.000563808
Other/unspecified	1.00%	1.00%	0.00042508
Biomass	12.00%	12.00%	5.5648E-05
Geothermal	2.00%	2.00%	0.000107172
Small hydro	8.00%	8.00%	0
Solar	0.00%	0.00%	5.77688E-06
Wind	26.00%	26.00%	0
	100.00%	100.00%	

Emission factor	**0.000174125**	MTCO2/KWH

	$MTCO_2e$	GWP
0.993187522	0.000425	1
0.003226963	0.000001	25
0.003585515	0.000002	298

**City of Glendale Power Mix from California Department of Energy. Utility Annual Power Content Labels for 2016. 2016 City of Glendale Power Content Label. http://www.energy.ca.gov/pcl/labels/*

***Global Warming Potentials from the Climate Change 2007, IPCC Fourth Assessment Report (AR4).*

CITY OF GLENDALE POWER CONTENT

$MTCH_4$

Source	Percent*	Adjusted percent	Emission factor (MTCH4/KWH)**
Coal	5.00%	5.00%	1.10044E-07
Large hydro	10.00%	10.00%	0
Natural gas	29.00%	29.00%	7.80947E-09
Nuclear	7.00%	7.00%	0
Oil	0.00%	0.00%	2.22183E-08
Other/unspecified	1.00%	1.00%	0.00000006
Biomass	12.00%	12.00%	2.88637E-07
Geothermal	2.00%	2.00%	0
Small hydro	8.00%	8.00%	0
Solar	0.00%	0.00%	1.08065E-10
Wind	26.00%	26.00%	0
	100.00%	100.00%	

Emission factor	**0.000000043**	MTCH4/KWH

MT/gas

0.00042508

0.00000006

0.00000001

**City of Glendale Power Mix from California Department of Energy. Utility Annual Power Content Labels for 2016. 2016 City of Glendale Power Content Label. http://www.energy.ca.gov/pcl/labels/*

***Global Warming Potentials from the Climate Change 2007, IPCC Fourth Assessment Report (AR4).*

CITY OF GLENDALE POWER CONTENT

MTN_2O

Source	Percent*	Adjusted percent	Emission factor (MTNO2/KWH)**
Coal	5.00%	5.00%	1.63004E-08
Large hydro	10.00%	10.00%	0
Natural gas	29.00%	29.00%	7.9203E-10
Nuclear	7.00%	7.00%	0
Oil	0.00%	0.00%	4.1182E-09
Other/unspecified	1.00%	1.00%	0.00
Biomass	12.00%	12.00%	3.78679E-08
Geothermal	2.00%	2.00%	0
Small hydro	8.00%	8.00%	0
Solar	0.00%	0.00%	1.08002E-11
Wind	26.00%	26.00%	0
	100.00%	100.00%	

Emission factor	**0.0000000056**	MTN2O/KWH

**City of Glendale Power Mix from California Department of Energy. Utility Annual Power Content Labels for 2016. 2016 Glendale Power Content Label. http://www.energy.ca.gov/pcl/labels/*

***Global Warming Potentials from the Climate Change 2007, IPCC Fourth Assessment Report (AR4).*

Emission Factor Calculator

Select GWPs	AR4

CO_2	1
CH_4	25
N_2O	298

Fuel type	MWh generated	lbs CO_2/kWh	lbs CH_4/kWh	lbs N_2O/kWh	lbs CO_2e/kWh	$MTCO_2e$/kWh
Biomass	6,006,423	0.122682	0.000636	0.000083	0.163468	0.000074
Coal	835,811	2.147448	0.000243	0.000036	2.164222	0.000982
Gas	108,673,627	0.854086	0.000017	0.000002	0.855036	0.000388
Geothermal	7,308,060	0.236272	0.000000	0.000000	0.236272	0.000107
Hydro	14,313,811	0.000000	0.000000	0.000000	0.000000	-
Nuclear	16,985,978	0.000000	0.000000	0.000000	0.000000	-
Oil	19,345	1.242971	0.000049	0.000009	1.246901	0.000566
Solar	7,473,990	0.012736	0.000000	0.000000	0.012749	0.000006
Wind	12,168,969	0.000000	0.000000	0.000000	0.000000	-
Other	1,789,739					0.000428

	334,944.51
	815,845.87
	42,189,356.30
	784,860.20
	-
	-
	10,929.49
	43,266.60
	-
<< CARB	

AR2
AR4
AR5

	AR2	AR4	AR5
CO_2	1	1	1
CH_4	21	25	28
N_2O	310	298	265

kWh per MWh	1,000
kWh per GWh	1,000,000
lbs per MT	2204.6

Regional Construction Emissions Worksheet

Asphalt Demolition Summer		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Fugitive Dust					0	0
	Off-Road	3.719	38.3225	22.304	0.0388	1.9386	1.8048
	Total	**3.719**	**38.3225**	**22.304**	**0.0388**	**1.9386**	**1.8048**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0184	0.4902	0.134	1.06E-03	0.0274	0.0103
	Worker	0.0829	0.0625	0.8101	1.89E-03	0.156	0.0426
	Total	**0.1013**	**0.5528**	**0.9442**	**2.95E-03**	**0.1835**	**0.0529**
TOTAL		***3.8203***	***38.8753***	***23.2482***	***0.0418***	***2.1221***	***1.8577***

Asphalt Demolition Winter		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Fugitive Dust					0	0
	Off-Road	3.719	38.3225	22.304	0.0388	1.9386	1.8048
	Total	**3.719**	**38.3225**	**22.304**	**0.0388**	**1.9386**	**1.8048**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0192	0.4913	0.1473	1.03E-03	0.0275	0.0103
	Worker	0.0917	0.0693	0.7459	1.78E-03	0.156	0.0426
	Total	**0.1109**	**0.5606**	**0.8932**	**2.81E-03**	**0.1835**	**0.053**
TOTAL		***3.8299***	***38.8831***	***23.1972***	***0.0416***	***2.1221***	***1.8578***

Asphalt Demolition Haul Summer		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Fugitive Dust					1.45E-01	2.19E-02
	Off-Road	0	0	0	0	0	0
	Total	**0**	**0**	**0**	**0**	**1.45E-01**	**2.19E-02**
Offsite							
	Hauling	0.0159	0.5169	0.107	1.30E-03	0.028	9.08E-03
	Vendor	0	0	0	0	0	0
	Worker	0	0	0	0	0	0
	Total	**0.0159**	**0.5169**	**0.107**	**1.30E-03**	**0.028**	**9.08E-03**
TOTAL		***0.0159***	***0.5169***	***0.1070***	***0.0013***	***0.1725***	***0.0310***
Summer Demolition + Haul		***3.8362***	***39.3922***	***23.3552***	***0.0431***	***2.2946***	***1.8887***

Asphalt Demolition Haul Winter		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Fugitive Dust					1.45E-01	2.19E-02
	Off-Road	0	0	0	0	0	0
	Total	**0**	**0**	**0**	**0**	**1.45E-01**	**2.19E-02**
Offsite							
	Hauling	0.0163	0.524	0.1144	1.28E-03	0.0281	9.12E-03
	Vendor	0	0	0	0	0	0
	Worker	0	0	0	0	0	0
	Total	**0.0163**	**0.524**	**0.1144**	**1.28E-03**	**0.0281**	**9.12E-03**
TOTAL		***0.0163***	***0.5240***	***0.1144***	***0.0013***	***0.1726***	***0.0310***
Winter Demolition Haul		***3.8462***	***39.4071***	***23.3116***	***0.0429***	***2.2947***	***1.8888***

Site Preparation Summer

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
Fugitive Dust						7.7233	4.2454
Off-Road		4.5627	48.1988	22.4763	0.038	2.5769	2.3708
Total		**4.5627**	**48.1988**	**22.4763**	**0.038**	**10.3002**	**6.6161**
Offsite							
Hauling		0	0	0	0	0	0
Vendor		0.0184	0.4902	0.134	1.06E-03	0.0274	0.0103
Worker		0.0995	0.0751	0.9721	2.27E-03	0.1873	0.0512
Total		**0.1179**	**0.5653**	**1.1062**	**3.33E-03**	**0.2147**	**0.0614**
TOTAL		***4.6806***	***48.7641***	***23.5825***	***0.0413***	***10.5149***	***6.6775***

Site Preparation Winter

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
Fugitive Dust						7.7233	4.2454
Off-Road		4.5627	48.1988	22.4763	0.038	2.5769	2.3708
Total		**4.5627**	**48.1988**	**22.4763**	**0.038**	**10.3002**	**6.6161**
Offsite							
Hauling		0	0	0	0	0	0
Vendor		0.0192	0.4913	0.1473	1.03E-03	0.0275	0.0103
Worker		0.1101	0.0831	0.8951	2.14E-03	0.1873	0.0512
Total		**0.1293**	**0.5745**	**1.0424**	**3.17E-03**	**0.2147**	**0.0615**
TOTAL		***4.6920***	***48.7733***	***23.5187***	***0.0412***	***10.5149***	***6.6776***

Grading Summer

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
Fugitive Dust						2.8011	1.4396
Off-Road		2.7733	30.6725	16.577	0.0297	1.5513	1.4272
Total		**2.7733**	**30.6725**	**16.577**	**0.0297**	**4.3524**	**2.8668**
Offsite							
Hauling		0	0	0	0	0	0
Vendor		0.0184	0.4902	0.134	1.06E-03	0.0274	0.0103
Worker		0.0829	0.0625	0.8101	1.89E-03	0.156	0.0426
Total		**0.1013**	**0.5528**	**0.9442**	**2.95E-03**	**0.1835**	**0.0529**
TOTAL		***2.8746***	***31.2253***	***17.5212***	***0.0327***	***4.5359***	***2.9197***

Grading Winter

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
Fugitive Dust						2.8011	1.4396
Off-Road		2.7733	30.6725	16.577	0.0297	1.5513	1.4272
Total		**2.7733**	**30.6725**	**16.577**	**0.0297**	**4.3524**	**2.8668**
Offsite							
Hauling		0	0	0	0	0	0
Vendor		0.0192	0.4913	0.1473	1.03E-03	0.0275	0.0103
Worker		0.0917	0.0693	0.7459	1.78E-03	0.156	0.0426
Total		**0.1109**	**0.5606**	**0.8932**	**2.81E-03**	**0.1835**	**0.053**
TOTAL		***2.8842***	***31.2331***	***17.4702***	***0.0325***	***4.5359***	***2.9198***

Grading Soil Haul Summer

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
Fugitive Dust						0.0404	6.12E-03
Off-Road		0	0	0	0	0	0
Total		**0**	**0**	**0**	**0**	**0.0404**	**6.12E-03**
Offsite							
Hauling		1.0379	33.7804	6.9897	0.0848	1.8322	0.5935
Vendor		0	0	0	0	0	0
Worker		0	0	0	0	0	0
Total		**1.0379**	**33.7804**	**6.9897**	**0.0848**	**1.8322**	**0.5935**
TOTAL		***1.0379***	***33.7804***	***6.9897***	***0.0848***	***1.8726***	***0.5996***
Grading + Haul		***3.9125***	***65.0057***	***24.5109***	***0.1175***	***6.4085***	***3.5193***

Grading Haul Winter

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
Fugitive Dust						0.0404	6.12E-03
Off-Road		0	0	0	0	0	0
Total		**0**	**0**	**0**	**0**	**0.0404**	**6.12E-03**
Offsite							
Hauling		1.0641	34.2431	7.4775	0.0833	1.8347	0.5959
Vendor		0	0	0	0.00E+00	0	0
Worker		0	0	0	0.00E+00	0	0
Total		**1.0641**	**34.2431**	**7.4775**	**8.33E-02**	**1.8347**	**0.5959**
TOTAL		***1.0641***	***34.2431***	***7.4775***	***0.0833***	***1.8751***	***0.6020***
Grading + Haul		***2.1020***	***68.0235***	***14.4672***	***0.1681***	***3.7477***	***1.2016***

Utility Trenching Summer							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Off-Road	0.5322	5.2595	4.6734	6.21E-03	0.3726	0.3428
	Total	**0.5322**	**5.2595**	**4.6734**	**6.21E-03**	**0.3726**	**0.3428**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0184	0.4902	0.134	1.06E-03	0.0274	0.0103
	Worker	0.0276	0.0209	0.27	6.30E-04	0.052	0.0142
	Total	**0.046**	**0.5111**	**0.4041**	**1.69E-03**	**0.0794**	**0.0245**
TOTAL		***0.5782***	***5.7706***	***5.0775***	***0.0079***	***0.4520***	***0.3673***

Utility Trenching Winter							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Off-Road	0.5322	5.2595	4.6734	6.21E-03	0.3726	0.3428
	Total	**0.5322**	**5.2595**	**4.6734**	**6.21E-03**	**0.3726**	**0.3428**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0192	0.4913	0.1473	1.03E-03	0.0275	0.0103
	Worker	0.0306	0.0231	0.2486	5.90E-04	0.052	0.0142
	Total	**0.0498**	**0.5144**	**0.396**	**1.62E-03**	**0.0795**	**0.0245**
TOTAL		***0.5820***	***5.7739***	***5.0694***	***0.0078***	***0.4521***	***0.3673***

Landscaping + Field Lighting Summer							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Off-Road	1.5789	17.4216	6.7126	0.0133	0.8474	0.7796
	Total	**1.5789**	**17.4216**	**6.7126**	**0.0133**	**0.8474**	**0.7796**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0322	0.8579	0.2346	1.85E-03	0.048	0.018
	Worker	0.0995	0.0751	0.9721	2.27E-03	0.1873	0.0512
	Total	**0.1317**	**0.933**	**1.2067**	**4.12E-03**	**0.2352**	**0.0691**
TOTAL		***1.7106***	***18.3546***	***7.9193***	***0.0174***	***1.0826***	***0.8487***
Paving + Landscaping		***3.3920***	***32.9564***	***21.4328***	***0.0388***	***2.1277***	***1.6773***

Landscaping + Field Lighting Winter							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Off-Road	1.5789	17.4216	6.7126	0.0133	0.8474	0.7796
	Total	**1.5789**	**17.4216**	**6.7126**	**0.0133**	**0.8474**	**0.7796**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0336	0.8599	0.2578	1.80E-03	0.0481	0.0181
	Worker	0.1101	0.0831	0.8951	2.14E-03	0.1873	0.0512
	Total	**0.1436**	**0.943**	**1.1529**	**3.94E-03**	**0.2353**	**0.0692**
TOTAL		***1.7225***	***18.3646***	***7.8655***	***0.0172***	***1.0827***	***0.8488***
Paving + Landscaping		***3.4157***	***32.9753***	***21.2933***	***0.0385***	***2.1278***	***1.6774***

Asphalt Paving Summer							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Off-Road	1.4239	14.5184	12.4333	0.0189	0.837	0.7718
	Paving	0.147				0	0
	Total	**1.5709**	**14.5184**	**12.4333**	**0.0189**	**0.837**	**0.7718**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.1105	0.0834	1.0802	2.52E-03	0.2081	0.0568
	Total	**0.1105**	**0.0834**	**1.0802**	**2.52E-03**	**0.2081**	**0.0568**
TOTAL		***1.6814***	***14.6018***	***13.5135***	***0.0214***	***1.0451***	***0.8286***

Asphalt Paving Winter

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2018**						
	Off-Road		1.4239	14.5184	12.4333	0.0189	0.837	0.7718
	Paving		0.147				0	0
	Total		**1.5709**	**14.5184**	**12.4333**	**0.0189**	**0.837**	**0.7718**
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0	0	0	0.00E+00	0	0
	Worker		0.1223	0.0923	0.9945	2.37E-03	0.2081	0.0568
	Total		**0.1223**	**0.0923**	**0.9945**	**2.37E-03**	**0.2081**	**0.0568**
TOTAL			***1.6932***	***14.6107***	***13.4278***	***0.0213***	***1.0451***	***0.8286***

Architectural Coating Summer		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Archit. Coating	0.7493				0	0
	Off-Road	0.2986	2.0058	1.8542	2.97E-03	0.1506	0.1506
	Total	**1.048**	**2.0058**	**1.8542**	**2.97E-03**	**0.1506**	**0.1506**
Offsite							
	Hauling	2.21E-03	0.0718	0.0149	1.80E-04	3.89E-03	1.26E-03
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.0221	0.0167	0.216	5.00E-04	0.0416	0.0114
	Total	**0.0243**	**0.0885**	**0.2309**	**6.80E-04**	**0.0455**	**0.0126**
TOTAL		***1.0723***	***2.0943***	***2.0851***	***0.0037***	***0.1961***	***0.1632***

Architectural Coating Winter		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Archit. Coating	0.7493				0	0
	Off-Road	0.2986	2.0058	1.8542	2.97E-03	0.1506	0.1506
	Total	**1.048**	**2.0058**	**1.8542**	**2.97E-03**	**0.1506**	**0.1506**
Offsite							
	Hauling	2.26E-03	0.0728	0.0159	1.80E-04	3.90E-03	1.27E-03
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.0245	0.0185	0.1989	4.70E-04	0.0416	0.0114
	Total	**0.0267**	**0.0913**	**0.2148**	**6.50E-04**	**0.0455**	**0.0126**
TOTAL		***1.0747***	***2.0971***	***2.0690***	***0.0036***	***0.1961***	***0.1632***

MAX DAILY	**4.69**	**68.02**	**24.51**	**0.17**	**10.51**	**6.68**
Regional Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	No	No	No	No	No	No

Localized Construction Emissions Worksheet

Asphalt Demolition					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2019**				
	Fugitive Dust	0	0	0	0
	Off-Road	38.3225	22.304	1.9386	1.8048
	Total	38.3225	22.304	1.9386	1.8048
1 Acre LSTs		80	498	4.00	3.00
Exceed Thresholds?		No	No	No	No

Asphalt Demo Haul					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2019**				
	Fugitive Dust	0	0	0.1445	0.0219
	Off-Road	0	0	0	0
	Total	0	0	0.1445	0.0219
Demo + Haul		***38.3225***	***22.3040***	***2.0831***	***1.8267***
1 Acre LSTs		80	498	4.00	3.00
Exceed Thresholds?		No	No	No	No

Site Preparation					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2019**				
	Fugitive Dust	0	0	7.7233	4.2454
	Off-Road	48.1988	22.4763	2.5769	2.3708
	Total	48.1988	22.4763	10.3002	6.6161
3.5-Acre LSTs		143	1,110	10.49	6.00
Exceed Thresholds?		No	No	No	Yes

Grading					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2019**				
	Fugitive Dust	0	0	2.8011	1.4396
	Off-Road	30.6725	16.577	1.5513	1.4272
	Total	30.6725	16.577	4.3524	2.8668

Grading Haul					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2019**				
	Fugitive Dust	0	0	0.0404	0.00612
	Off-Road	0	0	0	0
	Total	0	0	0.0404	0.00612
Grading + Haul		***30.6725***	***16.5770***	***4.3928***	***2.8729***
2.5-Acre LSTs		124	894	8.16	4.67
Exceed Thresholds?		No	No	No	No

Utility Trenching					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2019**				
	Off-Road	5.2595	4.6734	0.3726	0.3428
	Total	5.2595	4.6734	0.3726	0.3428
1-Acre LSTs		80	498	4.00	3.00
Exceed Thresholds?		No	No	No	No

Asphalt Paving					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2020**				
	Off-Road	14.5184	12.4333	0.837	0.7718
	Paving	0	0	0	0
	Total	14.5184	12.4333	0.837	0.7718
1-Acre LSTs		80	498	4.00	3.00
Exceed Thresholds?		No	No	No	No

Lighting Installation					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2019**				
	Off-Road	17.4216	6.7126	0.8474	0.7796
	Total	17.4216	6.7126	0.8474	0.7796
Paving + Lighting Installation		31.94	19.1459	1.6844	1.5514
1-Acre LSTs		80	498	4.00	3.00
Exceed Thresholds?		No	No	No	No

Architectural Coating					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2020**				
	Archit. Coating	0	0	0	0
	Off-Road	2.0058	1.8542	0.1506	0.1506
	Total	2.0058	1.8542	0.1506	0.1506
1-Acre LSTs		80	498	4.00	3.00
Exceed Thresholds?		No	No	No	No

Regional Construction Emissions Worksheet

Asphalt Demolition Summer		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Fugitive Dust					0	0
	Off-Road	0.4623	2.0032	23.2798	0.0388	0.0616	0.0616
	Total	**0.4623**	**2.0032**	**23.2798**	**0.0388**	**0.0616**	**0.0616**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0184	0.4902	0.134	1.06E-03	0.0274	0.0103
	Worker	0.0829	0.0625	0.8101	1.89E-03	0.156	0.0426
	Total	**0.1013**	**0.5528**	**0.9442**	**2.95E-03**	**0.1835**	**0.0529**
TOTAL		***0.5636***	***2.5560***	***24.2240***	***0.0418***	***0.2451***	***0.1145***

Asphalt Demolition Winter		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Fugitive Dust					0	0
	Off-Road	0.4623	2.0032	23.2798	0.0388	0.0616	0.0616
	Total	**0.4623**	**2.0032**	**23.2798**	**0.0388**	**0.0616**	**0.0616**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0192	0.4913	0.1473	1.03E-03	0.0275	0.0103
	Worker	0.0917	0.0693	0.7459	1.78E-03	0.156	0.0426
	Total	**0.1109**	**0.5606**	**0.8932**	**2.81E-03**	**0.1835**	**0.053**
TOTAL		***0.5732***	***2.5638***	***24.1730***	***0.0416***	***0.2451***	***0.1146***

Asphalt Demolition Haul Summer		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Fugitive Dust					1.45E-01	2.19E-02
	Off-Road	0	0	0	0	0	0
	Total	**0**	**0**	**0**	**0**	**1.45E-01**	**2.19E-02**
Offsite							
	Hauling	0.0159	0.5169	0.107	1.30E-03	0.028	9.08E-03
	Vendor	0	0	0	0	0	0
	Worker	0	0	0	0	0	0
	Total	**0.0159**	**0.5169**	**0.107**	**1.30E-03**	**0.028**	**9.08E-03**
TOTAL		***0.0159***	***0.5169***	***0.1070***	***0.0013***	***0.1725***	***0.0310***
Summer Demolition + Haul		***0.5795***	***3.0729***	***24.3310***	***0.0431***	***0.4176***	***0.1455***

Asphalt Demolition Haul Winter		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Fugitive Dust					1.45E-01	2.19E-02
	Off-Road	0	0	0	0	0	0
	Total	**0**	**0**	**0**	**0**	**1.45E-01**	**2.19E-02**
Offsite							
	Hauling	0.0163	0.524	0.1144	1.28E-03	0.0281	9.12E-03
	Vendor	0	0	0	0	0	0
	Worker	0	0	0	0	0	0
	Total	**0.0163**	**0.524**	**0.1144**	**1.28E-03**	**0.0281**	**9.12E-03**
TOTAL		***0.0163***	***0.5240***	***0.1144***	***0.0013***	***0.1726***	***0.0310***
Winter Demolition Haul		***0.5895***	***3.0878***	***24.2874***	***0.0429***	***0.4177***	***0.1456***

Site Preparation Summer

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Fugitive Dust					7.7233	4.2454
	Off-Road	0.4656	2.0175	20.869	0.038	0.0621	0.0621
	Total	**0.4656**	**2.0175**	**20.869**	**0.038**	**7.7854**	**4.3075**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0184	0.4902	0.134	1.06E-03	0.0274	0.0103
	Worker	0.0995	0.0751	0.9721	2.27E-03	0.1873	0.0512
	Total	**0.1179**	**0.5653**	**1.1062**	**3.33E-03**	**0.2147**	**0.0614**
TOTAL		***0.5835***	***2.5828***	***21.9752***	***0.0413***	***8.0001***	***4.3689***

Site Preparation Winter

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Fugitive Dust					7.7233	4.2454
	Off-Road	0.4656	2.0175	20.869	0.038	0.0621	0.0621
	Total	**0.4656**	**2.0175**	**20.869**	**0.038**	**7.7854**	**4.3075**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0192	0.4913	0.1473	1.03E-03	0.0275	0.0103
	Worker	0.1101	0.0831	0.8951	2.14E-03	0.1873	0.0512
	Total	**0.1293**	**0.5745**	**1.0424**	**3.17E-03**	**0.2147**	**0.0615**
TOTAL		***0.5949***	***2.5920***	***21.9114***	***0.0412***	***8.0001***	***4.3690***

Grading Summer

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Fugitive Dust					2.8011	1.4396
	Off-Road	0.3632	1.5737	17.7527	0.0297	0.0484	0.0484
	Total	**0.3632**	**1.5737**	**17.7527**	**0.0297**	**2.8495**	**1.488**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0184	0.4902	0.134	1.06E-03	0.0274	0.0103
	Worker	0.0829	0.0625	0.8101	1.89E-03	0.156	0.0426
	Total	**0.1013**	**0.5528**	**0.9442**	**2.95E-03**	**0.1835**	**0.0529**
TOTAL		***0.4645***	***2.1265***	***18.6969***	***0.0327***	***3.0330***	***1.5409***

Grading Winter

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Fugitive Dust					2.8011	1.4396
	Off-Road	0.3632	1.5737	17.7527	0.0297	0.0484	0.0484
	Total	**0.3632**	**1.5737**	**17.7527**	**0.0297**	**2.8495**	**1.488**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0192	0.4913	0.1473	1.03E-03	0.0275	0.0103
	Worker	0.0917	0.0693	0.7459	1.78E-03	0.156	0.0426
	Total	**0.1109**	**0.5606**	**0.8932**	**2.81E-03**	**0.1835**	**0.053**
TOTAL		***0.4741***	***2.1343***	***18.6459***	***0.0325***	***3.0330***	***1.5410***

Grading Soil Haul Summer

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Fugitive Dust					0.0404	6.12E-03
	Off-Road	0	0	0	0	0	0
	Total	**0**	**0**	**0**	**0**	**0.0404**	**6.12E-03**
Offsite							
	Hauling	1.0379	33.7804	6.9897	0.0848	1.8322	0.5935
	Vendor	0	0	0	0	0	0
	Worker	0	0	0	0	0	0
	Total	**1.0379**	**33.7804**	**6.9897**	**0.0848**	**1.8322**	**0.5935**
TOTAL		***1.0379***	***33.7804***	***6.9897***	***0.0848***	***1.8726***	***0.5996***
Grading + Haul		***1.5024***	***35.9069***	***25.6866***	***0.1175***	***4.9056***	***2.1405***

Grading Haul Winter

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Fugitive Dust					0.0404	6.12E-03
	Off-Road	0	0	0	0	0	0
	Total	**0**	**0**	**0**	**0**	**0.0404**	**6.12E-03**
Offsite							
	Hauling	1.0641	34.2431	7.4775	0.0833	1.8347	0.5959
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0	0	0	0.00E+00	0	0
	Total	**1.0641**	**34.2431**	**7.4775**	**8.33E-02**	**1.8347**	**0.5959**
TOTAL		***1.0641***	***34.2431***	***7.4775***	***0.0833***	***1.8751***	***0.6020***
Grading + Haul		***1.5382***	***36.3774***	***26.1234***	***0.1158***	***4.9081***	***2.1430***

Utility Trenching Summer							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Off-Road	0.076	0.3292	4.6841	6.21E-03	0.0101	0.0101
	Total	**0.076**	**0.3292**	**4.6841**	**6.21E-03**	**0.0101**	**0.0101**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0184	0.4902	0.134	1.06E-03	0.0274	0.0103
	Worker	0.0276	0.0209	0.27	6.30E-04	0.052	0.0142
	Total	**0.046**	**0.5111**	**0.4041**	**1.69E-03**	**0.0794**	**0.0245**
TOTAL		***0.1220***	***0.8403***	***5.0882***	***0.0079***	***0.0895***	***0.0346***

Utility Trenching Winter							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Off-Road	0.076	0.3292	4.6841	6.21E-03	0.0101	0.0101
	Total	**0.076**	**0.3292**	**4.6841**	**6.21E-03**	**0.0101**	**0.0101**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0192	0.4913	0.1473	1.03E-03	0.0275	0.0103
	Worker	0.0306	0.0231	0.2486	5.90E-04	0.052	0.0142
	Total	**0.0498**	**0.5144**	**0.396**	**1.62E-03**	**0.0795**	**0.0245**
TOTAL		***0.1258***	***0.8436***	***5.0801***	***0.0078***	***0.0896***	***0.0346***

Landscaping + Field Lighting Summer							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Off-Road	0.1634	0.7082	6.3457	0.0133	0.0218	0.0218
	Total	**0.1634**	**0.7082**	**6.3457**	**0.0133**	**0.0218**	**0.0218**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0322	0.8579	0.2346	1.85E-03	0.048	0.018
	Worker	0.0995	0.0751	0.9721	2.27E-03	0.1873	0.0512
	Total	**0.1317**	**0.933**	**1.2067**	**4.12E-03**	**0.2352**	**0.0691**
TOTAL		***0.2951***	***1.6412***	***7.5524***	***0.0174***	***0.2570***	***0.0909***
Paving + Landscaping		***0.8602***	***3.2278***	***22.6275***	***0.0388***	***0.5161***	***0.1987***

Landscaping + Field Lighting Winter							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Off-Road	0.1634	0.7082	6.3457	0.0133	0.0218	0.0218
	Total	**0.1634**	**0.7082**	**6.3457**	**0.0133**	**0.0218**	**0.0218**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0336	0.8599	0.2578	1.80E-03	0.0481	0.0181
	Worker	0.1101	0.0831	0.8951	2.14E-03	0.1873	0.0512
	Total	**0.1436**	**0.943**	**1.1529**	**3.94E-03**	**0.2353**	**0.0692**
TOTAL		***0.3070***	***1.6512***	***7.4986***	***0.0172***	***0.2571***	***0.0910***
Paving + Landscaping		***0.8839***	***3.2467***	***22.4880***	***0.0385***	***0.5162***	***0.1988***

Asphalt Paving Summer							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Off-Road	0.3076	1.5032	13.9949	0.0189	0.051	0.051
	Paving	0.147				0	0
	Total	**0.4546**	**1.5032**	**13.9949**	**0.0189**	**0.051**	**0.051**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.1105	0.0834	1.0802	2.52E-03	0.2081	0.0568
	Total	**0.1105**	**0.0834**	**1.0802**	**2.52E-03**	**0.2081**	**0.0568**
TOTAL		***0.5651***	***1.5866***	***15.0751***	***0.0214***	***0.2591***	***0.1078***

Asphalt Paving Winter

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Off-Road	0.3076	1.5032	13.9949	0.0189	0.051	0.051
	Paving	0.147				0	0
	Total	**0.4546**	**1.5032**	**13.9949**	**0.0189**	**0.051**	**0.051**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.1223	0.0923	0.9945	2.37E-03	0.2081	0.0568
	Total	**0.1223**	**0.0923**	**0.9945**	**2.37E-03**	**0.2081**	**0.0568**
TOTAL		***0.5769***	***1.5955***	***14.9894***	***0.0213***	***0.2591***	***0.1078***

Architectural Coating Summer		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Archit. Coating	0.7493				0	0
	Off-Road	0.2986	2.0058	1.8542	2.97E-03	1.51E-01	1.51E-01
	Total	**1.048**	**2.0058**	**1.8542**	**2.97E-03**	**1.51E-01**	**1.51E-01**
Offsite							
	Hauling	2.21E-03	0.0718	0.0149	1.80E-04	3.89E-03	1.26E-03
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.0221	0.0167	0.216	5.00E-04	0.0416	0.0114
	Total	**0.0243**	**0.0885**	**0.2309**	**6.80E-04**	**0.0455**	**0.0126**
TOTAL		***1.0723***	***2.0943***	***2.0851***	***0.0037***	***0.1961***	***0.1632***

Architectural Coating Winter		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2018**						
	Archit. Coating	0.7493				0	0
	Off-Road	0.2986	2.0058	1.8542	2.97E-03	1.51E-01	1.51E-01
	Total	**1.048**	**2.0058**	**1.8542**	**2.97E-03**	**1.51E-01**	**1.51E-01**
Offsite							
	Hauling	2.26E-03	0.0728	0.0159	1.80E-04	3.90E-03	1.27E-03
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.0245	0.0185	0.1989	4.70E-04	0.0416	0.0114
	Total	**0.0267**	**0.0913**	**0.2148**	**6.50E-04**	**0.0455**	**0.0126**
TOTAL		***1.0747***	***2.0971***	***2.0690***	***0.0036***	***0.1961***	***0.1632***

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
MAX DAILY	**1.54**	**36.38**	**26.12**	**0.12**	**8.00**	**4.37**
Regional Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	No	No	No	No	No	No

Localized Construction Emissions Worksheet

Asphalt Demolition					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2019**				
	Fugitive Dust	0	0	0	0
	Off-Road	2.0032	23.2798	0.0616	0.0616
	Total	2.0032	23.2798	0.0616	0.0616
1 Acre LSTs		80	498	4.00	3.00
Exceed Thresholds?		No	No	No	No

Asphalt Demo Haul					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2019**				
	Fugitive Dust	0	0	0.1445	0.0219
	Off-Road	0	0	0	0
	Total	0	0	0.1445	0.0219
Demo + Haul		***2.0032***	***23.2798***	***0.2061***	***0.0835***
1 Acre LSTs		80	498	4.00	3.00
Exceed Thresholds?		No	No	No	No

Site Preparation					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2019**				
	Fugitive Dust	0	0	7.7233	4.2454
	Off-Road	2.0175	20.869	0.0621	0.0621
	Total	2.0175	20.869	7.7854	4.3075
3.5-Acre LSTs		143	1,110	10.49	6.00
Exceed Thresholds?		No	No	No	No

Grading					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2019**				
	Fugitive Dust	0	0	2.8011	1.4396
	Off-Road	1.5737	17.7527	0.0484	0.0484
	Total	1.5737	17.7527	2.8495	1.488

Grading Haul					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2019**				
	Fugitive Dust	0	0	0.0404	0.00612
	Off-Road	0	0	0	0
	Total	0	0	0.0404	0.00612
Grading + Haul		***1.5737***	***17.7527***	***2.8899***	***1.4941***
2.5-Acre LSTs		124	894	8.16	4.67
Exceed Thresholds?		No	No	No	No

Utility Trenching					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2019**				
	Off-Road	0.3292	4.6841	0.0101	0.0101
	Total	0.3292	4.6841	0.0101	0.0101
1-Acre LSTs		80	498	4.00	3.00
Exceed Thresholds?		No	No	No	No

Asphalt Paving					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2020**				
	Off-Road	1.5032	13.9949	0.051	0.051
	Paving	0	0	0	0
	Total	1.5032	13.9949	0.051	0.051
1-Acre LSTs		80	498	4.00	3.00
Exceed Thresholds?		No	No	No	No

Lighting Installation					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2019**				
	Off-Road	0.7082	6.3457	0.0218	0.0218
	Total	0.7082	6.3457	0.0218	0.0218
Paving + Lighting Installation		2.2114	20.3406	0.0728	0.0728
1-Acre LSTs		80	498	4.00	3.00
Exceed Thresholds?		No	No	No	No

Architectural Coating					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2020**				
	Archit. Coating	0	0	0	0
	Off-Road	2.0058	1.8542	0.1506	0.1506
	Total	2.0058	1.8542	0.1506	0.1506
1-Acre LSTs		80	498	4.00	3.00
Exceed Thresholds?		No	No	No	No

Regional Operational Emissions Worksheet

Summer	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.053	1.60E-04	0.0174	0.00E+00	6.00E-05	6.00E-05
Energy	5.10E-04	4.61E-03	3.87E-03	3.00E-05	3.50E-04	3.50E-04
Mobile	0.5396	0.8452	7.7641	0.02	1.7928	0.4859
Total	**0.593**	**0.8499**	**7.7853**	**0.02**	**1.7932**	**0.4864**

Winter	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.053	1.60E-04	0.0174	0.00E+00	6.00E-05	6.00E-05
Energy	5.10E-04	4.61E-03	3.87E-03	3.00E-05	3.50E-04	3.50E-04
Mobile	0.5228	0.9079	7.3005	0.0188	1.7928	0.486
Total	**0.5763**	**0.9127**	**7.3217**	**0.0189**	**1.7932**	**0.4864**

Max Daily	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.053	0.000	0.017	0.000	0.000	0.000
Energy	0.001	0.005	0.004	0.000	0.000	0.000
Mobile	0.540	0.908	7.764	0.020	1.793	0.486
Total	**0.593**	**0.913**	**7.785**	**0.020**	**1.793**	**0.486**
Regional Thresholds	**55**	**55**	**550**	**150**	**150**	**550**
Exceeds Thresholds?	No	No	No	No	No	No

Localized Operational Emissions Worksheet

Max Daily	NOx	CO	PM10 Total	PM2.5 Total
Area	0.000	0.017	0.000	0.000
Energy	0.005	0.004	0.000	0.000
Total	**0.005**	**0.021**	**0.000**	**0.000**
LSTs	**172**	**1,434**	**4.00**	**2.00**
Exceeds Thresholds?	No	No	No	No

GHG Emissions Worksheet

	MTons Total
2019 Construction	**176**
Amoritized Emissions	**6**

Source	MTons/Year	Percent of Total
Area	0.004	0.002%
Energy	3	1%
Stadium Lighting	*10*	*4%*
Mobile	264	93%
Waste	0	0
Water	0.2	0.001
Amortized Construction Emissions*	6	2%
Total All Sectors	283	100%

Wilson Midle School Construction

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	42.15	1000sqft	1.01	42,145.00	0
Other Non-Asphalt Surfaces	123.92	1000sqft	2.84	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2019
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	383.88	**CH4 Intensity (lb/MWhr)**	0.095	**N2O Intensity (lb/MWhr)**	0.012

1.3 User Entered Comments & Non-Default Data

Project Characteristics - **City of Glendale Power Mix from California Department of Energy. Utility Annual Power Content Labels for 2016. 2016 City of Glendale Power Content Label. http://www.energy.ca.gov/pcl/labels/

Land Use - See CalEEMod Assumptions

Construction Phase - See CalEEMod Assumptions

Off-road Equipment -

Off-road Equipment - Haul

Off-road Equipment - Haul

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - See CalEEMod Assumptions

Off-road Equipment - See CalEEMod Assumptions

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - CalEEMod assumtions

Trips and VMT - See ClaEEMod Assumtpions

Demolition -

Grading -

Architectural Coating - See CalEEMod Assumptions

Vehicle Trips -

Construction Off-road Equipment Mitigation - See CalEEMod Assumptions

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	0.00	823.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	0.00	2,468.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	8.00	16.00
tblConstructionPhase	NumDays	8.00	16.00
tblConstructionPhase	NumDays	230.00	18.00
tblGrading	MaterialExported	0.00	13,381.00
tblLandUse	LandUseSquareFeet	42,150.00	42,145.00
tblLandUse	LandUseSquareFeet	123,920.00	0.00
tblLandUse	LotAcreage	0.97	1.01
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.095
tblProjectCharacteristics	CO2IntensityFactor	0	383.88
tblProjectCharacteristics	N2OIntensityFactor	0	0.012
tblTripsAndVMT	HaulingTripNumber	31.00	32.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

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					
2018	0.1234	1.3788	0.7154	1.8700e-003	0.1252	0.0571	0.1823	0.0588	0.0530	0.1117	0.0000	174.8133	174.8133	0.0332	0.0000	175.6442
Maximum	**0.1234**	**1.3788**	**0.7154**	**1.8700e-003**	**0.1252**	**0.0571**	**0.1823**	**0.0588**	**0.0530**	**0.1117**	**0.0000**	**174.8133**	**174.8133**	**0.0332**	**0.0000**	**175.6442**

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					
2018	0.1234	1.3788	0.7154	1.8700e-003	0.0653	0.0571	0.1224	0.0284	0.0530	0.0813	0.0000	174.8132	174.8132	0.0332	0.0000	175.6441
Maximum	**0.1234**	**1.3788**	**0.7154**	**1.8700e-003**	**0.0653**	**0.0571**	**0.1224**	**0.0284**	**0.0530**	**0.0813**	**0.0000**	**174.8132**	**174.8132**	**0.0332**	**0.0000**	**175.6441**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**47.85**	**0.00**	**32.86**	**51.73**	**0.00**	**27.21**	**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	**6-1-2018**	**8-31-2018**	1.7205	1.7205
2	**9-1-2018**	**9-30-2018**	0.0294	0.0294
		Highest	1.7205	1.7205

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Asphalt Demo	Demolition	6/1/2018	6/28/2018	5	20	
2	Asphalt Demo Haul	Demolition	6/1/2018	6/28/2018	5	20	
3	Site Preparation	Site Preparation	6/29/2018	7/5/2018	5	5	
4	Grading	Grading	7/6/2018	7/27/2018	5	16	
5	Grading Haul	Grading	7/6/2018	7/27/2018	5	16	
6	Trenching	Trenching	7/28/2018	8/6/2018	5	6	
7	Landscaping & Field Lighting	Building Construction	8/7/2018	8/30/2018	5	18	
8	Paving	Paving	8/7/2018	8/30/2018	5	18	
9	Architectural Coating	Architectural Coating	9/1/2018	9/26/2018	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 8

Acres of Paving: 3.85

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,468; Non-Residential Outdoor: 823; Striped Parking Area: 2,529

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Asphalt Demo	Concrete/Industrial Saws	1	8.00	81	0.73
Asphalt Demo	Excavators	3	8.00	158	0.38
Asphalt Demo	Rubber Tired Dozers	2	8.00	247	0.40
Asphalt Demo Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demo Haul	Excavators	0	8.00	158	0.38
Asphalt Demo Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38

Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading Haul	Excavators	0	8.00	158	0.38
Grading Haul	Graders	0	8.00	187	0.41
Grading Haul	Rubber Tired Dozers	0	8.00	247	0.40
Grading Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Landscaping & Field Lighting	Cranes	1	8.00	231	0.29
Landscaping & Field Lighting	Forklifts	1	6.00	89	0.20
Landscaping & Field Lighting	Generator Sets	0	8.00	84	0.74
Landscaping & Field Lighting	Rubber Tired Dozers	1	6.00	247	0.40
Landscaping & Field Lighting	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Landscaping & Field Lighting	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Asphalt Demo	6	15.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demo Haul	0	0.00	0.00	32.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading Haul	0	0.00	0.00	1,673.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	2	5.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Landscaping & Field Lighting	3	18.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	4.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Asphalt Demo - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0372	0.3832	0.2230	3.9000e-004		0.0194	0.0194		0.0181	0.0181	0.0000	35.1241	35.1241	9.6800e-003	0.0000	35.3660
Total	**0.0372**	**0.3832**	**0.2230**	**3.9000e-004**	**0.0000**	**0.0194**	**0.0194**	**0.0000**	**0.0181**	**0.0181**	**0.0000**	**35.1241**	**35.1241**	**9.6800e-003**	**0.0000**	**35.3660**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	1.9000e-004	5.0100e-003	1.4100e-003	1.0000e-005	2.5000e-004	3.0000e-005	2.9000e-004	7.0000e-005	3.0000e-005	1.1000e-004	0.0000	1.0107	1.0107	7.0000e-005	0.0000	1.0124
Worker	8.3000e-004	7.1000e-004	7.6500e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.6332	1.6332	6.0000e-005	0.0000	1.6347
Total	**1.0200e-003**	**5.7200e-003**	**9.0600e-003**	**3.0000e-005**	**1.8900e-003**	**4.0000e-005**	**1.9500e-003**	**5.1000e-004**	**4.0000e-005**	**5.6000e-004**	**0.0000**	**2.6439**	**2.6439**	**1.3000e-004**	**0.0000**	**2.6471**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0372	0.3832	0.2230	3.9000e-004		0.0194	0.0194		0.0181	0.0181	0.0000	35.1240	35.1240	9.6800e-003	0.0000	35.3660
Total	**0.0372**	**0.3832**	**0.2230**	**3.9000e-004**	**0.0000**	**0.0194**	**0.0194**	**0.0000**	**0.0181**	**0.0181**	**0.0000**	**35.1240**	**35.1240**	**9.6800e-003**	**0.0000**	**35.3660**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	1.9000e-004	5.0100e-003	1.4100e-003	1.0000e-005	2.4000e-004	3.0000e-005	2.7000e-004	7.0000e-005	3.0000e-005	1.0000e-004	0.0000	1.0107	1.0107	7.0000e-005	0.0000	1.0124
Worker	8.3000e-004	7.1000e-004	7.6500e-003	2.0000e-005	1.5200e-003	1.0000e-005	1.5300e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.6332	1.6332	6.0000e-005	0.0000	1.6347
Total	**1.0200e-003**	**5.7200e-003**	**9.0600e-003**	**3.0000e-005**	**1.7600e-003**	**4.0000e-005**	**1.8000e-003**	**4.8000e-004**	**4.0000e-005**	**5.2000e-004**	**0.0000**	**2.6439**	**2.6439**	**1.3000e-004**	**0.0000**	**2.6471**

3.3 Asphalt Demo Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.3800e-003	0.0000	3.3800e-003	5.1000e-004	0.0000	5.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**3.3800e-003**	**0.0000**	**3.3800e-003**	**5.1000e-004**	**0.0000**	**5.1000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6000e-004	5.3400e-003	1.1000e-003	1.0000e-005	2.7000e-004	2.0000e-005	2.9000e-004	8.0000e-005	2.0000e-005	9.0000e-005	0.0000	1.2620	1.2620	9.0000e-005	0.0000	1.2642
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	**1.6000e-004**	**5.3400e-003**	**1.1000e-003**	**1.0000e-005**	**2.7000e-004**	**2.0000e-005**	**2.9000e-004**	**8.0000e-005**	**2.0000e-005**	**9.0000e-005**	**0.0000**	**1.2620**	**1.2620**	**9.0000e-005**	**0.0000**	**1.2642**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.4500e-003	0.0000	1.4500e-003	2.2000e-004	0.0000	2.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.4500e-003**	**0.0000**	**1.4500e-003**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6000e-004	5.3400e-003	1.1000e-003	1.0000e-005	2.6000e-004	2.0000e-005	2.8000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	1.2620	1.2620	9.0000e-005	0.0000	1.2642
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	**1.6000e-004**	**5.3400e-003**	**1.1000e-003**	**1.0000e-005**	**2.6000e-004**	**2.0000e-005**	**2.8000e-004**	**7.0000e-005**	**2.0000e-005**	**9.0000e-005**	**0.0000**	**1.2620**	**1.2620**	**9.0000e-005**	**0.0000**	**1.2642**

3.4 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.1205	0.0562	1.0000e-004		6.4400e-003	6.4400e-003		5.9300e-003	5.9300e-003	0.0000	8.6900	8.6900	2.7100e-003	0.0000	8.7576
Total	**0.0114**	**0.1205**	**0.0562**	**1.0000e-004**	**0.0452**	**6.4400e-003**	**0.0516**	**0.0248**	**5.9300e-003**	**0.0308**	**0.0000**	**8.6900**	**8.6900**	**2.7100e-003**	**0.0000**	**8.7576**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.2500e-003	3.5000e-004	0.0000	6.0000e-005	1.0000e-005	7.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2527	0.2527	2.0000e-005	0.0000	0.2531
Worker	2.5000e-004	2.1000e-004	2.2900e-003	1.0000e-005	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4900	0.4900	2.0000e-005	0.0000	0.4904
Total	**3.0000e-004**	**1.4600e-003**	**2.6400e-003**	**1.0000e-005**	**5.5000e-004**	**1.0000e-005**	**5.7000e-004**	**1.5000e-004**	**1.0000e-005**	**1.7000e-004**	**0.0000**	**0.7426**	**0.7426**	**4.0000e-005**	**0.0000**	**0.7435**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0193	0.0000	0.0193	0.0106	0.0000	0.0106	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.1205	0.0562	1.0000e-004		6.4400e-003	6.4400e-003		5.9300e-003	5.9300e-003	0.0000	8.6900	8.6900	2.7100e-003	0.0000	8.7576
Total	**0.0114**	**0.1205**	**0.0562**	**1.0000e-004**	**0.0193**	**6.4400e-003**	**0.0258**	**0.0106**	**5.9300e-003**	**0.0165**	**0.0000**	**8.6900**	**8.6900**	**2.7100e-003**	**0.0000**	**8.7576**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.2500e-003	3.5000e-004	0.0000	6.0000e-005	1.0000e-005	7.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2527	0.2527	2.0000e-005	0.0000	0.2531
Worker	2.5000e-004	2.1000e-004	2.2900e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.4900	0.4900	2.0000e-005	0.0000	0.4904
Total	**3.0000e-004**	**1.4600e-003**	**2.6400e-003**	**1.0000e-005**	**5.1000e-004**	**1.0000e-005**	**5.3000e-004**	**1.4000e-004**	**1.0000e-005**	**1.6000e-004**	**0.0000**	**0.7426**	**0.7426**	**4.0000e-005**	**0.0000**	**0.7435**

3.5 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0524	0.0000	0.0524	0.0269	0.0000	0.0269	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.2454	0.1326	2.4000e-004		0.0124	0.0124		0.0114	0.0114	0.0000	21.6855	21.6855	6.7500e-003	0.0000	21.8543
Total	**0.0222**	**0.2454**	**0.1326**	**2.4000e-004**	**0.0524**	**0.0124**	**0.0648**	**0.0269**	**0.0114**	**0.0384**	**0.0000**	**21.6855**	**21.6855**	**6.7500e-003**	**0.0000**	**21.8543**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	1.5000e-004	4.0100e-003	1.1300e-003	1.0000e-005	2.0000e-004	3.0000e-005	2.3000e-004	6.0000e-005	3.0000e-005	8.0000e-005	0.0000	0.8085	0.8085	6.0000e-005	0.0000	0.8099
Worker	6.6000e-004	5.7000e-004	6.1200e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.3066	1.3066	5.0000e-005	0.0000	1.3078
Total	**8.1000e-004**	**4.5800e-003**	**7.2500e-003**	**2.0000e-005**	**1.5100e-003**	**4.0000e-005**	**1.5600e-003**	**4.1000e-004**	**4.0000e-005**	**4.4000e-004**	**0.0000**	**2.1151**	**2.1151**	**1.1000e-004**	**0.0000**	**2.1177**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0224	0.0000	0.0224	0.0115	0.0000	0.0115	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.2454	0.1326	2.4000e-004		0.0124	0.0124		0.0114	0.0114	0.0000	21.6855	21.6855	6.7500e-003	0.0000	21.8543
Total	**0.0222**	**0.2454**	**0.1326**	**2.4000e-004**	**0.0224**	**0.0124**	**0.0348**	**0.0115**	**0.0114**	**0.0229**	**0.0000**	**21.6855**	**21.6855**	**6.7500e-003**	**0.0000**	**21.8543**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	1.5000e-004	4.0100e-003	1.1300e-003	1.0000e-005	1.9000e-004	3.0000e-005	2.2000e-004	6.0000e-005	3.0000e-005	8.0000e-005	0.0000	0.8085	0.8085	6.0000e-005	0.0000	0.8099
Worker	6.6000e-004	5.7000e-004	6.1200e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.4000e-004	0.0000	1.3066	1.3066	5.0000e-005	0.0000	1.3078
Total	**8.1000e-004**	**4.5800e-003**	**7.2500e-003**	**2.0000e-005**	**1.4000e-003**	**4.0000e-005**	**1.4400e-003**	**3.8000e-004**	**4.0000e-005**	**4.2000e-004**	**0.0000**	**2.1151**	**2.1151**	**1.1000e-004**	**0.0000**	**2.1177**

3.6 Grading Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.6000e-004	0.0000	7.6000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**7.6000e-004**	**0.0000**	**7.6000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.3900e-003	0.2794	0.0576	6.7000e-004	0.0144	1.0400e-003	0.0154	3.9500e-003	9.9000e-004	4.9400e-003	0.0000	65.9799	65.9799	4.6500e-003	0.0000	66.0963
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	**8.3900e-003**	**0.2794**	**0.0576**	**6.7000e-004**	**0.0144**	**1.0400e-003**	**0.0154**	**3.9500e-003**	**9.9000e-004**	**4.9400e-003**	**0.0000**	**65.9799**	**65.9799**	**4.6500e-003**	**0.0000**	**66.0963**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.2000e-004	0.0000	3.2000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.3900e-003	0.2794	0.0576	6.7000e-004	0.0134	1.0400e-003	0.0144	3.7100e-003	9.9000e-004	4.7000e-003	0.0000	65.9799	65.9799	4.6500e-003	0.0000	66.0963
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	**8.3900e-003**	**0.2794**	**0.0576**	**6.7000e-004**	**0.0134**	**1.0400e-003**	**0.0144**	**3.7100e-003**	**9.9000e-004**	**4.7000e-003**	**0.0000**	**65.9799**	**65.9799**	**4.6500e-003**	**0.0000**	**66.0963**

3.7 Trenching - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.6000e-003	0.0158	0.0140	2.0000e-005		1.1200e-003	1.1200e-003		1.0300e-003	1.0300e-003	0.0000	1.7025	1.7025	5.3000e-004	0.0000	1.7157
Total	**1.6000e-003**	**0.0158**	**0.0140**	**2.0000e-005**		**1.1200e-003**	**1.1200e-003**		**1.0300e-003**	**1.0300e-003**	**0.0000**	**1.7025**	**1.7025**	**5.3000e-004**	**0.0000**	**1.7157**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	6.0000e-005	1.5000e-003	4.2000e-004	0.0000	8.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3032	0.3032	2.0000e-005	0.0000	0.3037
Worker	8.0000e-005	7.0000e-005	7.6000e-004	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.1633	0.1633	1.0000e-005	0.0000	0.1635
Total	**1.4000e-004**	**1.5700e-003**	**1.1800e-003**	**0.0000**	**2.4000e-004**	**1.0000e-005**	**2.6000e-004**	**6.0000e-005**	**1.0000e-005**	**8.0000e-005**	**0.0000**	**0.4665**	**0.4665**	**3.0000e-005**	**0.0000**	**0.4672**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.6000e-003	0.0158	0.0140	2.0000e-005		1.1200e-003	1.1200e-003		1.0300e-003	1.0300e-003	0.0000	1.7025	1.7025	5.3000e-004	0.0000	1.7157
Total	**1.6000e-003**	**0.0158**	**0.0140**	**2.0000e-005**		**1.1200e-003**	**1.1200e-003**		**1.0300e-003**	**1.0300e-003**	**0.0000**	**1.7025**	**1.7025**	**5.3000e-004**	**0.0000**	**1.7157**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	6.0000e-005	1.5000e-003	4.2000e-004	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3032	0.3032	2.0000e-005	0.0000	0.3037
Worker	8.0000e-005	7.0000e-005	7.6000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1633	0.1633	1.0000e-005	0.0000	0.1635
Total	**1.4000e-004**	**1.5700e-003**	**1.1800e-003**	**0.0000**	**2.2000e-004**	**1.0000e-005**	**2.3000e-004**	**6.0000e-005**	**1.0000e-005**	**7.0000e-005**	**0.0000**	**0.4665**	**0.4665**	**3.0000e-005**	**0.0000**	**0.4672**

3.8 Landscaping & Field Lighting - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0142	0.1568	0.0604	1.2000e-004		7.6300e-003	7.6300e-003		7.0200e-003	7.0200e-003	0.0000	10.9494	10.9494	3.4100e-003	0.0000	11.0346
Total	**0.0142**	**0.1568**	**0.0604**	**1.2000e-004**		**7.6300e-003**	**7.6300e-003**		**7.0200e-003**	**7.0200e-003**	**0.0000**	**10.9494**	**10.9494**	**3.4100e-003**	**0.0000**	**11.0346**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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-004	7.8900e-003	2.2200e-003	2.0000e-005	4.0000e-004	5.0000e-005	4.5000e-004	1.1000e-004	5.0000e-005	1.7000e-004	0.0000	1.5918	1.5918	1.1000e-004	0.0000	1.5945
Worker	9.0000e-004	7.7000e-004	8.2600e-003	2.0000e-005	1.7800e-003	2.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.9000e-004	0.0000	1.7639	1.7639	7.0000e-005	0.0000	1.7655
Total	**1.2000e-003**	**8.6600e-003**	**0.0105**	**4.0000e-005**	**2.1800e-003**	**7.0000e-005**	**2.2400e-003**	**5.8000e-004**	**6.0000e-005**	**6.6000e-004**	**0.0000**	**3.3557**	**3.3557**	**1.8000e-004**	**0.0000**	**3.3600**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1568	0.0604	1.2000e-004		7.6300e-003	7.6300e-003		7.0200e-003	7.0200e-003	0.0000	10.9494	10.9494	3.4100e-003	0.0000	11.0346
Total	**0.0142**	**0.1568**	**0.0604**	**1.2000e-004**		**7.6300e-003**	**7.6300e-003**		**7.0200e-003**	**7.0200e-003**	**0.0000**	**10.9494**	**10.9494**	**3.4100e-003**	**0.0000**	**11.0346**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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-004	7.8900e-003	2.2200e-003	2.0000e-005	3.7000e-004	5.0000e-005	4.3000e-004	1.1000e-004	5.0000e-005	1.6000e-004	0.0000	1.5918	1.5918	1.1000e-004	0.0000	1.5945
Worker	9.0000e-004	7.7000e-004	8.2600e-003	2.0000e-005	1.6400e-003	2.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.7639	1.7639	7.0000e-005	0.0000	1.7655
Total	**1.2000e-003**	**8.6600e-003**	**0.0105**	**4.0000e-005**	**2.0100e-003**	**7.0000e-005**	**2.0800e-003**	**5.5000e-004**	**6.0000e-005**	**6.1000e-004**	**0.0000**	**3.3557**	**3.3557**	**1.8000e-004**	**0.0000**	**3.3600**

3.9 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0128	0.1307	0.1119	1.7000e-004		7.5300e-003	7.5300e-003		6.9500e-003	6.9500e-003	0.0000	15.2887	15.2887	4.6300e-003	0.0000	15.4045
Paving	1.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0141**	**0.1307**	**0.1119**	**1.7000e-004**		**7.5300e-003**	**7.5300e-003**		**6.9500e-003**	**6.9500e-003**	**0.0000**	**15.2887**	**15.2887**	**4.6300e-003**	**0.0000**	**15.4045**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-003	8.5000e-004	9.1800e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.9598	1.9598	7.0000e-005	0.0000	1.9617
Total	**1.0000e-003**	**8.5000e-004**	**9.1800e-003**	**2.0000e-005**	**1.9700e-003**	**2.0000e-005**	**1.9900e-003**	**5.2000e-004**	**2.0000e-005**	**5.4000e-004**	**0.0000**	**1.9598**	**1.9598**	**7.0000e-005**	**0.0000**	**1.9617**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0128	0.1307	0.1119	1.7000e-004		7.5300e-003	7.5300e-003		6.9500e-003	6.9500e-003	0.0000	15.2887	15.2887	4.6300e-003	0.0000	15.4045
Paving	1.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0141**	**0.1307**	**0.1119**	**1.7000e-004**		**7.5300e-003**	**7.5300e-003**		**6.9500e-003**	**6.9500e-003**	**0.0000**	**15.2887**	**15.2887**	**4.6300e-003**	**0.0000**	**15.4045**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-003	8.5000e-004	9.1800e-003	2.0000e-005	1.8200e-003	2.0000e-005	1.8400e-003	4.9000e-004	2.0000e-005	5.0000e-004	0.0000	1.9598	1.9598	7.0000e-005	0.0000	1.9617
Total	**1.0000e-003**	**8.5000e-004**	**9.1800e-003**	**2.0000e-005**	**1.8200e-003**	**2.0000e-005**	**1.8400e-003**	**4.9000e-004**	**2.0000e-005**	**5.0000e-004**	**0.0000**	**1.9598**	**1.9598**	**7.0000e-005**	**0.0000**	**1.9617**

3.10 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.7400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6900e-003	0.0181	0.0167	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	2.2979	2.2979	2.2000e-004	0.0000	2.3034
Total	**9.4300e-003**	**0.0181**	**0.0167**	**3.0000e-005**		**1.3500e-003**	**1.3500e-003**		**1.3500e-003**	**1.3500e-003**	**0.0000**	**2.2979**	**2.2979**	**2.2000e-004**	**0.0000**	**2.3034**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	6.7000e-004	1.4000e-004	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1578	0.1578	1.0000e-005	0.0000	0.1580
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.7000e-004	1.8400e-003	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3920	0.3920	1.0000e-005	0.0000	0.3923
Total	**2.2000e-004**	**8.4000e-004**	**1.9800e-003**	**0.0000**	**4.2000e-004**	**0.0000**	**4.4000e-004**	**1.1000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.5497**	**0.5497**	**2.0000e-005**	**0.0000**	**0.5504**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.7400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6900e-003	0.0181	0.0167	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	2.2979	2.2979	2.2000e-004	0.0000	2.3034
Total	**9.4300e-003**	**0.0181**	**0.0167**	**3.0000e-005**		**1.3500e-003**	**1.3500e-003**		**1.3500e-003**	**1.3500e-003**	**0.0000**	**2.2979**	**2.2979**	**2.2000e-004**	**0.0000**	**2.3034**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	6.7000e-004	1.4000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1578	0.1578	1.0000e-005	0.0000	0.1580
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.7000e-004	1.8400e-003	0.0000	3.6000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3920	0.3920	1.0000e-005	0.0000	0.3923
Total	**2.2000e-004**	**8.4000e-004**	**1.9800e-003**	**0.0000**	**3.9000e-004**	**0.0000**	**4.0000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.5497**	**0.5497**	**2.0000e-005**	**0.0000**	**0.5504**

Wilson Midle School Construction

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	42.15	1000sqft	1.01	42,145.00	0
Other Non-Asphalt Surfaces	123.92	1000sqft	2.84	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2019
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	383.88	**CH4 Intensity (lb/MWhr)**	0.095	**N2O Intensity (lb/MWhr)**	0.012

1.3 User Entered Comments & Non-Default Data

Project Characteristics - **City of Glendale Power Mix from California Department of Energy. Utility Annual Power Content Labels for 2016. 2016 City of Glendale Power Content Label. http://www.energy.ca.gov/pcl/labels/

Land Use - See CalEEMod Assumptions

Construction Phase - See CalEEMod Assumptions

Off-road Equipment -

Off-road Equipment - Haul

Off-road Equipment - Haul

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - See CalEEMod Assumptions

Off-road Equipment - See CalEEMod Assumptions

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - CalEEMod assumtions

Trips and VMT - See ClaEEMod Assumtpions

Demolition -

Grading -

Architectural Coating - See CalEEMod Assumptions

Vehicle Trips -

Construction Off-road Equipment Mitigation - See CalEEMod Assumptions

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	0.00	823.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	0.00	2,468.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	8.00	16.00
tblConstructionPhase	NumDays	8.00	16.00
tblConstructionPhase	NumDays	230.00	18.00
tblGrading	MaterialExported	0.00	13,381.00
tblLandUse	LandUseSquareFeet	42,150.00	42,145.00
tblLandUse	LandUseSquareFeet	123,920.00	0.00
tblLandUse	LotAcreage	0.97	1.01
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.095
tblProjectCharacteristics	CO2IntensityFactor	0	383.88
tblProjectCharacteristics	N2OIntensityFactor	0	0.012
tblTripsAndVMT	HaulingTripNumber	31.00	32.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

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					
2018	4.6806	65.0057	24.5108	0.1174	18.2931	2.5822	20.8752	9.9914	2.3757	12.3671	0.0000	12,444.3917	12,444.3917	1.5750	0.0000	12,483.7660
Maximum	**4.6806**	**65.0057**	**24.5108**	**0.1174**	**18.2931**	**2.5822**	**20.8752**	**9.9914**	**2.3757**	**12.3671**	**0.0000**	**12,444.3917**	**12,444.3917**	**1.5750**	**0.0000**	**12,483.7660**

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					
2018	4.6806	65.0057	24.5108	0.1174	7.9328	2.5822	10.5149	4.3018	2.3757	6.6776	0.0000	12,444.3917	12,444.3917	1.5750	0.0000	12,483.7660
Maximum	**4.6806**	**65.0057**	**24.5108**	**0.1174**	**7.9328**	**2.5822**	**10.5149**	**4.3018**	**2.3757**	**6.6776**	**0.0000**	**12,444.3917**	**12,444.3917**	**1.5750**	**0.0000**	**12,483.7660**

	ROG	**NOx**	**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**	**56.64**	**0.00**	**49.63**	**56.94**	**0.00**	**46.01**	**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	Asphalt Demo	Demolition	6/1/2018	6/28/2018	5	20	
2	Asphalt Demo Haul	Demolition	6/1/2018	6/28/2018	5	20	
3	Site Preparation	Site Preparation	6/29/2018	7/5/2018	5	5	
4	Grading	Grading	7/6/2018	7/27/2018	5	16	
5	Grading Haul	Grading	7/6/2018	7/27/2018	5	16	
6	Trenching	Trenching	7/28/2018	8/6/2018	5	6	
7	Landscaping & Field Lighting	Building Construction	8/7/2018	8/30/2018	5	18	
8	Paving	Paving	8/7/2018	8/30/2018	5	18	
9	Architectural Coating	Architectural Coating	9/1/2018	9/26/2018	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 8

Acres of Paving: 3.85

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,468; Non-Residential Outdoor: 823; Striped Parking Area: 2,529

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Asphalt Demo	Concrete/Industrial Saws	1	8.00	81	0.73
Asphalt Demo	Excavators	3	8.00	158	0.38
Asphalt Demo	Rubber Tired Dozers	2	8.00	247	0.40
Asphalt Demo Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demo Haul	Excavators	0	8.00	158	0.38
Asphalt Demo Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading Haul	Excavators	0	8.00	158	0.38
Grading Haul	Graders	0	8.00	187	0.41
Grading Haul	Rubber Tired Dozers	0	8.00	247	0.40
Grading Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Landscaping & Field Lighting	Cranes	1	8.00	231	0.29
Landscaping & Field Lighting	Forklifts	1	6.00	89	0.20
Landscaping & Field Lighting	Generator Sets	0	8.00	84	0.74
Landscaping & Field Lighting	Rubber Tired Dozers	1	6.00	247	0.40
Landscaping & Field Lighting	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Landscaping & Field Lighting	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Asphalt Demo	6	15.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demo Haul	0	0.00	0.00	32.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading Haul	0	0.00	0.00	1,673.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	2	5.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Landscaping & Field Lighting	3	18.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	4.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Asphalt Demo - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.7665	3,871.7665	1.0667		3,898.4344
Total	**3.7190**	**38.3225**	**22.3040**	**0.0388**	**0.0000**	**1.9386**	**1.9386**	**0.0000**	**1.8048**	**1.8048**		**3,871.7665**	**3,871.7665**	**1.0667**		**3,898.4344**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0184	0.4902	0.1340	1.0600e-003	0.0256	3.4500e-003	0.0291	7.3700e-003	3.3000e-003	0.0107		112.6718	112.6718	7.4200e-003		112.8572
Worker	0.0829	0.0625	0.8101	1.8900e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		188.0535	188.0535	7.0500e-003		188.2298
Total	**0.1013**	**0.5528**	**0.9442**	**2.9500e-003**	**0.1933**	**4.9400e-003**	**0.1982**	**0.0518**	**4.6800e-003**	**0.0565**		**300.7252**	**300.7252**	**0.0145**		**301.0871**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048	0.0000	3,871.7665	3,871.7665	1.0667		3,898.4344
Total	**3.7190**	**38.3225**	**22.3040**	**0.0388**	**0.0000**	**1.9386**	**1.9386**	**0.0000**	**1.8048**	**1.8048**	**0.0000**	**3,871.7665**	**3,871.7665**	**1.0667**		**3,898.4344**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0184	0.4902	0.1340	1.0600e-003	0.0240	3.4500e-003	0.0274	6.9700e-003	3.3000e-003	0.0103		112.6718	112.6718	7.4200e-003		112.8572
Worker	0.0829	0.0625	0.8101	1.8900e-003	0.1546	1.4900e-003	0.1560	0.0413	1.3800e-003	0.0426		188.0535	188.0535	7.0500e-003		188.2298
Total	**0.1013**	**0.5528**	**0.9442**	**2.9500e-003**	**0.1785**	**4.9400e-003**	**0.1835**	**0.0482**	**4.6800e-003**	**0.0529**		**300.7252**	**300.7252**	**0.0145**		**301.0871**

3.3 Asphalt Demo Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3381	0.0000	0.3381	0.0512	0.0000	0.0512			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.3381**	**0.0000**	**0.3381**	**0.0512**	**0.0000**	**0.0512**		**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	0.0159	0.5169	0.1070	1.3000e-003	0.0280	1.9700e-003	0.0299	7.6700e-003	1.8800e-003	9.5500e-003		140.0983	140.0983	9.6400e-003		140.3395
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	**0.0159**	**0.5169**	**0.1070**	**1.3000e-003**	**0.0280**	**1.9700e-003**	**0.0299**	**7.6700e-003**	**1.8800e-003**	**9.5500e-003**		**140.0983**	**140.0983**	**9.6400e-003**		**140.3395**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1445	0.0000	0.1445	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.1445**	**0.0000**	**0.1445**	**0.0219**	**0.0000**	**0.0219**	**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	0.0159	0.5169	0.1070	1.3000e-003	0.0261	1.9700e-003	0.0280	7.2000e-003	1.8800e-003	9.0800e-003		140.0983	140.0983	9.6400e-003		140.3395
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	**0.0159**	**0.5169**	**0.1070**	**1.3000e-003**	**0.0261**	**1.9700e-003**	**0.0280**	**7.2000e-003**	**1.8800e-003**	**9.0800e-003**		**140.0983**	**140.0983**	**9.6400e-003**		**140.3395**

3.4 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**4.5627**	**48.1988**	**22.4763**	**0.0380**	**18.0663**	**2.5769**	**20.6432**	**9.9307**	**2.3708**	**12.3014**		**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0184	0.4902	0.1340	1.0600e-003	0.0256	3.4500e-003	0.0291	7.3700e-003	3.3000e-003	0.0107		112.6718	112.6718	7.4200e-003		112.8572
Worker	0.0995	0.0751	0.9721	2.2700e-003	0.2012	1.7900e-003	0.2030	0.0534	1.6500e-003	0.0550		225.6642	225.6642	8.4600e-003		225.8758
Total	**0.1179**	**0.5653**	**1.1062**	**3.3300e-003**	**0.2268**	**5.2400e-003**	**0.2321**	**0.0607**	**4.9500e-003**	**0.0657**		**338.3359**	**338.3359**	**0.0159**		**338.7330**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.7233	0.0000	7.7233	4.2454	0.0000	4.2454			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**4.5627**	**48.1988**	**22.4763**	**0.0380**	**7.7233**	**2.5769**	**10.3002**	**4.2454**	**2.3708**	**6.6161**	**0.0000**	**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0184	0.4902	0.1340	1.0600e-003	0.0240	3.4500e-003	0.0274	6.9700e-003	3.3000e-003	0.0103		112.6718	112.6718	7.4200e-003		112.8572
Worker	0.0995	0.0751	0.9721	2.2700e-003	0.1855	1.7900e-003	0.1873	0.0495	1.6500e-003	0.0512		225.6642	225.6642	8.4600e-003		225.8758
Total	**0.1179**	**0.5653**	**1.1062**	**3.3300e-003**	**0.2094**	**5.2400e-003**	**0.2147**	**0.0565**	**4.9500e-003**	**0.0614**		**338.3359**	**338.3359**	**0.0159**		**338.7330**

3.5 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272		2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**2.7733**	**30.6725**	**16.5770**	**0.0297**	**6.5523**	**1.5513**	**8.1037**	**3.3675**	**1.4272**	**4.7947**		**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0184	0.4902	0.1340	1.0600e-003	0.0256	3.4500e-003	0.0291	7.3700e-003	3.3000e-003	0.0107		112.6718	112.6718	7.4200e-003		112.8572
Worker	0.0829	0.0625	0.8101	1.8900e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		188.0535	188.0535	7.0500e-003		188.2298
Total	**0.1013**	**0.5528**	**0.9442**	**2.9500e-003**	**0.1933**	**4.9400e-003**	**0.1982**	**0.0518**	**4.6800e-003**	**0.0565**		**300.7252**	**300.7252**	**0.0145**		**301.0871**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.8011	0.0000	2.8011	1.4396	0.0000	1.4396			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**2.7733**	**30.6725**	**16.5770**	**0.0297**	**2.8011**	**1.5513**	**4.3524**	**1.4396**	**1.4272**	**2.8668**	**0.0000**	**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0184	0.4902	0.1340	1.0600e-003	0.0240	3.4500e-003	0.0274	6.9700e-003	3.3000e-003	0.0103		112.6718	112.6718	7.4200e-003		112.8572
Worker	0.0829	0.0625	0.8101	1.8900e-003	0.1546	1.4900e-003	0.1560	0.0413	1.3800e-003	0.0426		188.0535	188.0535	7.0500e-003		188.2298
Total	**0.1013**	**0.5528**	**0.9442**	**2.9500e-003**	**0.1785**	**4.9400e-003**	**0.1835**	**0.0482**	**4.6800e-003**	**0.0529**		**300.7252**	**300.7252**	**0.0145**		**301.0871**

3.6 Grading Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0946	0.0000	0.0946	0.0143	0.0000	0.0143			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0946**	**0.0000**	**0.0946**	**0.0143**	**0.0000**	**0.0143**		**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	1.0379	33.7804	6.9897	0.0848	1.8281	0.1285	1.9566	0.5011	0.1229	0.6240		9,155.6448	9,155.6448	0.6303		9,171.4020
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	**1.0379**	**33.7804**	**6.9897**	**0.0848**	**1.8281**	**0.1285**	**1.9566**	**0.5011**	**0.1229**	**0.6240**		**9,155.6448**	**9,155.6448**	**0.6303**		**9,171.4020**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0404	0.0000	0.0404	6.1200e-003	0.0000	6.1200e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0404**	**0.0000**	**0.0404**	**6.1200e-003**	**0.0000**	**6.1200e-003**	**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	1.0379	33.7804	6.9897	0.0848	1.7037	0.1285	1.8322	0.4706	0.1229	0.5935		9,155.6448	9,155.6448	0.6303		9,171.4020
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	**1.0379**	**33.7804**	**6.9897**	**0.0848**	**1.7037**	**0.1285**	**1.8322**	**0.4706**	**0.1229**	**0.5935**		**9,155.6448**	**9,155.6448**	**0.6303**		**9,171.4020**

3.7 Trenching - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5322	5.2595	4.6734	6.2100e-003		0.3726	0.3726		0.3428	0.3428		625.5519	625.5519	0.1947		630.4205
Total	**0.5322**	**5.2595**	**4.6734**	**6.2100e-003**		**0.3726**	**0.3726**		**0.3428**	**0.3428**		**625.5519**	**625.5519**	**0.1947**		**630.4205**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0184	0.4902	0.1340	1.0600e-003	0.0256	3.4500e-003	0.0291	7.3700e-003	3.3000e-003	0.0107		112.6718	112.6718	7.4200e-003		112.8572
Worker	0.0276	0.0209	0.2700	6.3000e-004	0.0559	5.0000e-004	0.0564	0.0148	4.6000e-004	0.0153		62.6845	62.6845	2.3500e-003		62.7433
Total	**0.0460**	**0.5111**	**0.4041**	**1.6900e-003**	**0.0815**	**3.9500e-003**	**0.0855**	**0.0222**	**3.7600e-003**	**0.0260**		**175.3563**	**175.3563**	**9.7700e-003**		**175.6005**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5322	5.2595	4.6734	6.2100e-003		0.3726	0.3726		0.3428	0.3428	0.0000	625.5519	625.5519	0.1947		630.4205
Total	**0.5322**	**5.2595**	**4.6734**	**6.2100e-003**		**0.3726**	**0.3726**		**0.3428**	**0.3428**	**0.0000**	**625.5519**	**625.5519**	**0.1947**		**630.4205**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0184	0.4902	0.1340	1.0600e-003	0.0240	3.4500e-003	0.0274	6.9700e-003	3.3000e-003	0.0103		112.6718	112.6718	7.4200e-003		112.8572
Worker	0.0276	0.0209	0.2700	6.3000e-004	0.0515	5.0000e-004	0.0520	0.0138	4.6000e-004	0.0142		62.6845	62.6845	2.3500e-003		62.7433
Total	**0.0460**	**0.5111**	**0.4041**	**1.6900e-003**	**0.0755**	**3.9500e-003**	**0.0794**	**0.0207**	**3.7600e-003**	**0.0245**		**175.3563**	**175.3563**	**9.7700e-003**		**175.6005**

3.8 Landscaping & Field Lighting - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5789	17.4216	6.7126	0.0133		0.8474	0.8474		0.7796	0.7796		1,341.0686	1,341.0686	0.4175		1,351.5059
Total	**1.5789**	**17.4216**	**6.7126**	**0.0133**		**0.8474**	**0.8474**		**0.7796**	**0.7796**		**1,341.0686**	**1,341.0686**	**0.4175**		**1,351.5059**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0322	0.8579	0.2346	1.8500e-003	0.0448	6.0500e-003	0.0509	0.0129	5.7800e-003	0.0187		197.1756	197.1756	0.0130		197.5002
Worker	0.0995	0.0751	0.9721	2.2700e-003	0.2012	1.7900e-003	0.2030	0.0534	1.6500e-003	0.0550		225.6642	225.6642	8.4600e-003		225.8758
Total	**0.1317**	**0.9330**	**1.2067**	**4.1200e-003**	**0.2460**	**7.8400e-003**	**0.2539**	**0.0663**	**7.4300e-003**	**0.0737**		**422.8398**	**422.8398**	**0.0214**		**423.3759**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5789	17.4216	6.7126	0.0133		0.8474	0.8474		0.7796	0.7796	0.0000	1,341.0686	1,341.0686	0.4175		1,351.5059
Total	**1.5789**	**17.4216**	**6.7126**	**0.0133**		**0.8474**	**0.8474**		**0.7796**	**0.7796**	**0.0000**	**1,341.0686**	**1,341.0686**	**0.4175**		**1,351.5059**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0322	0.8579	0.2346	1.8500e-003	0.0419	6.0500e-003	0.0480	0.0122	5.7800e-003	0.0180		197.1756	197.1756	0.0130		197.5002
Worker	0.0995	0.0751	0.9721	2.2700e-003	0.1855	1.7900e-003	0.1873	0.0495	1.6500e-003	0.0512		225.6642	225.6642	8.4600e-003		225.8758
Total	**0.1317**	**0.9330**	**1.2067**	**4.1200e-003**	**0.2274**	**7.8400e-003**	**0.2352**	**0.0617**	**7.4300e-003**	**0.0691**		**422.8398**	**422.8398**	**0.0214**		**423.3759**

3.9 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718		1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.1470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5709**	**14.5184**	**12.4333**	**0.0189**		**0.8370**	**0.8370**		**0.7718**	**0.7718**		**1,872.5505**	**1,872.5505**	**0.5672**		**1,886.7312**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1105	0.0834	1.0802	2.5200e-003	0.2236	1.9900e-003	0.2256	0.0593	1.8400e-003	0.0611		250.7380	250.7380	9.4000e-003		250.9731
Total	**0.1105**	**0.0834**	**1.0802**	**2.5200e-003**	**0.2236**	**1.9900e-003**	**0.2256**	**0.0593**	**1.8400e-003**	**0.0611**		**250.7380**	**250.7380**	**9.4000e-003**		**250.9731**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718	0.0000	1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.1470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5709**	**14.5184**	**12.4333**	**0.0189**		**0.8370**	**0.8370**		**0.7718**	**0.7718**	**0.0000**	**1,872.5505**	**1,872.5505**	**0.5672**		**1,886.7312**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1105	0.0834	1.0802	2.5200e-003	0.2061	1.9900e-003	0.2081	0.0550	1.8400e-003	0.0568		250.7380	250.7380	9.4000e-003		250.9731
Total	**0.1105**	**0.0834**	**1.0802**	**2.5200e-003**	**0.2061**	**1.9900e-003**	**0.2081**	**0.0550**	**1.8400e-003**	**0.0568**		**250.7380**	**250.7380**	**9.4000e-003**		**250.9731**

3.10 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.7493					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	**1.0480**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.1171**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2100e-003	0.0718	0.0149	1.8000e-004	3.8900e-003	2.7000e-004	4.1600e-003	1.0600e-003	2.6000e-004	1.3300e-003		19.4581	19.4581	1.3400e-003		19.4916
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	0.0221	0.0167	0.2160	5.0000e-004	0.0447	4.0000e-004	0.0451	0.0119	3.7000e-004	0.0122		50.1476	50.1476	1.8800e-003		50.1946
Total	**0.0243**	**0.0885**	**0.2309**	**6.8000e-004**	**0.0486**	**6.7000e-004**	**0.0493**	**0.0129**	**6.3000e-004**	**0.0136**		**69.6057**	**69.6057**	**3.2200e-003**		**69.6862**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7493					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	**1.0480**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.1171**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2100e-003	0.0718	0.0149	1.8000e-004	3.6200e-003	2.7000e-004	3.8900e-003	1.0000e-003	2.6000e-004	1.2600e-003		19.4581	19.4581	1.3400e-003		19.4916
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	0.0221	0.0167	0.2160	5.0000e-004	0.0412	4.0000e-004	0.0416	0.0110	3.7000e-004	0.0114		50.1476	50.1476	1.8800e-003		50.1946
Total	**0.0243**	**0.0885**	**0.2309**	**6.8000e-004**	**0.0448**	**6.7000e-004**	**0.0455**	**0.0120**	**6.3000e-004**	**0.0126**		**69.6057**	**69.6057**	**3.2200e-003**		**69.6862**

Wilson Midle School Construction

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	42.15	1000sqft	1.01	42,145.00	0
Other Non-Asphalt Surfaces	123.92	1000sqft	2.84	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2019
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	383.88	**CH4 Intensity (lb/MWhr)**	0.095	**N2O Intensity (lb/MWhr)**	0.012

1.3 User Entered Comments & Non-Default Data

Project Characteristics - **City of Glendale Power Mix from California Department of Energy. Utility Annual Power Content Labels for 2016. 2016 City of Glendale Power Content Label. http://www.energy.ca.gov/pcl/labels/

Land Use - See CalEEMod Assumptions

Construction Phase - See CalEEMod Assumptions

Off-road Equipment -

Off-road Equipment - Haul

Off-road Equipment - Haul

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - See CalEEMod Assumptions

Off-road Equipment - See CalEEMod Assumptions

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - CalEEMod assumtions

Trips and VMT - See ClaEEMod Assumtpions

Demolition -

Grading -

Architectural Coating - See CalEEMod Assumptions

Vehicle Trips -

Construction Off-road Equipment Mitigation - See CalEEMod Assumptions

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	0.00	823.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	0.00	2,468.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	8.00	16.00
tblConstructionPhase	NumDays	8.00	16.00
tblConstructionPhase	NumDays	230.00	18.00
tblGrading	MaterialExported	0.00	13,381.00
tblLandUse	LandUseSquareFeet	42,150.00	42,145.00
tblLandUse	LandUseSquareFeet	123,920.00	0.00
tblLandUse	LotAcreage	0.97	1.01
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.095
tblProjectCharacteristics	CO2IntensityFactor	0	383.88
tblProjectCharacteristics	N2OIntensityFactor	0	0.012
tblTripsAndVMT	HaulingTripNumber	31.00	32.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

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					
2018	4.6920	65.4762	24.9477	0.1158	18.2931	2.5822	20.8753	9.9914	2.3758	12.3672	0.0000	12,277.2140	12,277.2140	1.5997	0.0000	12,317.2058
Maximum	**4.6920**	**65.4762**	**24.9477**	**0.1158**	**18.2931**	**2.5822**	**20.8753**	**9.9914**	**2.3758**	**12.3672**	**0.0000**	**12,277.2140**	**12,277.2140**	**1.5997**	**0.0000**	**12,317.2058**

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					
2018	4.6920	65.4762	24.9477	0.1158	7.9328	2.5822	10.5150	4.3018	2.3758	6.6776	0.0000	12,277.2140	12,277.2140	1.5997	0.0000	12,317.2058
Maximum	**4.6920**	**65.4762**	**24.9477**	**0.1158**	**7.9328**	**2.5822**	**10.5150**	**4.3018**	**2.3758**	**6.6776**	**0.0000**	**12,277.2140**	**12,277.2140**	**1.5997**	**0.0000**	**12,317.2058**

	ROG	**NOx**	**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**	**56.64**	**0.00**	**49.63**	**56.94**	**0.00**	**46.01**	**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	Asphalt Demo	Demolition	6/1/2018	6/28/2018	5	20	
2	Asphalt Demo Haul	Demolition	6/1/2018	6/28/2018	5	20	
3	Site Preparation	Site Preparation	6/29/2018	7/5/2018	5	5	
4	Grading	Grading	7/6/2018	7/27/2018	5	16	
5	Grading Haul	Grading	7/6/2018	7/27/2018	5	16	
6	Trenching	Trenching	7/28/2018	8/6/2018	5	6	
7	Landscaping & Field Lighting	Building Construction	8/7/2018	8/30/2018	5	18	
8	Paving	Paving	8/7/2018	8/30/2018	5	18	
9	Architectural Coating	Architectural Coating	9/1/2018	9/26/2018	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 8

Acres of Paving: 3.85

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,468; Non-Residential Outdoor: 823; Striped Parking Area: 2,529

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Asphalt Demo	Concrete/Industrial Saws	1	8.00	81	0.73
Asphalt Demo	Excavators	3	8.00	158	0.38
Asphalt Demo	Rubber Tired Dozers	2	8.00	247	0.40
Asphalt Demo Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demo Haul	Excavators	0	8.00	158	0.38
Asphalt Demo Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading Haul	Excavators	0	8.00	158	0.38
Grading Haul	Graders	0	8.00	187	0.41
Grading Haul	Rubber Tired Dozers	0	8.00	247	0.40
Grading Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Landscaping & Field Lighting	Cranes	1	8.00	231	0.29
Landscaping & Field Lighting	Forklifts	1	6.00	89	0.20
Landscaping & Field Lighting	Generator Sets	0	8.00	84	0.74
Landscaping & Field Lighting	Rubber Tired Dozers	1	6.00	247	0.40
Landscaping & Field Lighting	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Landscaping & Field Lighting	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Asphalt Demo	6	15.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demo Haul	0	0.00	0.00	32.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading Haul	0	0.00	0.00	1,673.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	2	5.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Landscaping & Field Lighting	3	18.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	4.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Asphalt Demo - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.7665	3,871.7665	1.0667		3,898.4344
Total	**3.7190**	**38.3225**	**22.3040**	**0.0388**	**0.0000**	**1.9386**	**1.9386**	**0.0000**	**1.8048**	**1.8048**		**3,871.7665**	**3,871.7665**	**1.0667**		**3,898.4344**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0192	0.4913	0.1473	1.0300e-003	0.0256	3.5100e-003	0.0291	7.3700e-003	3.3600e-003	0.0107		109.6599	109.6599	7.9100e-003		109.8578
Worker	0.0917	0.0693	0.7459	1.7800e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		177.0864	177.0864	6.6600e-003		177.2530
Total	**0.1109**	**0.5606**	**0.8932**	**2.8100e-003**	**0.1933**	**5.0000e-003**	**0.1983**	**0.0518**	**4.7400e-003**	**0.0566**		**286.7463**	**286.7463**	**0.0146**		**287.1108**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048	0.0000	3,871.7665	3,871.7665	1.0667		3,898.4344
Total	**3.7190**	**38.3225**	**22.3040**	**0.0388**	**0.0000**	**1.9386**	**1.9386**	**0.0000**	**1.8048**	**1.8048**	**0.0000**	**3,871.7665**	**3,871.7665**	**1.0667**		**3,898.4344**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0192	0.4913	0.1473	1.0300e-003	0.0240	3.5100e-003	0.0275	6.9700e-003	3.3600e-003	0.0103		109.6599	109.6599	7.9100e-003		109.8578
Worker	0.0917	0.0693	0.7459	1.7800e-003	0.1546	1.4900e-003	0.1560	0.0413	1.3800e-003	0.0426		177.0864	177.0864	6.6600e-003		177.2530
Total	**0.1109**	**0.5606**	**0.8932**	**2.8100e-003**	**0.1785**	**5.0000e-003**	**0.1835**	**0.0482**	**4.7400e-003**	**0.0530**		**286.7463**	**286.7463**	**0.0146**		**287.1108**

3.3 Asphalt Demo Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3381	0.0000	0.3381	0.0512	0.0000	0.0512			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.3381**	**0.0000**	**0.3381**	**0.0512**	**0.0000**	**0.0512**		**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	0.0163	0.5240	0.1144	1.2800e-003	0.0280	2.0000e-003	0.0300	7.6700e-003	1.9200e-003	9.5900e-003		137.7541	137.7541	0.0100		138.0046
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	**0.0163**	**0.5240**	**0.1144**	**1.2800e-003**	**0.0280**	**2.0000e-003**	**0.0300**	**7.6700e-003**	**1.9200e-003**	**9.5900e-003**		**137.7541**	**137.7541**	**0.0100**		**138.0046**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1445	0.0000	0.1445	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.1445**	**0.0000**	**0.1445**	**0.0219**	**0.0000**	**0.0219**	**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	0.0163	0.5240	0.1144	1.2800e-003	0.0261	2.0000e-003	0.0281	7.2000e-003	1.9200e-003	9.1200e-003		137.7541	137.7541	0.0100		138.0046
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	**0.0163**	**0.5240**	**0.1144**	**1.2800e-003**	**0.0261**	**2.0000e-003**	**0.0281**	**7.2000e-003**	**1.9200e-003**	**9.1200e-003**		**137.7541**	**137.7541**	**0.0100**		**138.0046**

3.4 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**4.5627**	**48.1988**	**22.4763**	**0.0380**	**18.0663**	**2.5769**	**20.6432**	**9.9307**	**2.3708**	**12.3014**		**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0192	0.4913	0.1473	1.0300e-003	0.0256	3.5100e-003	0.0291	7.3700e-003	3.3600e-003	0.0107		109.6599	109.6599	7.9100e-003		109.8578
Worker	0.1101	0.0831	0.8951	2.1400e-003	0.2012	1.7900e-003	0.2030	0.0534	1.6500e-003	0.0550		212.5037	212.5037	8.0000e-003		212.7036
Total	**0.1293**	**0.5745**	**1.0424**	**3.1700e-003**	**0.2268**	**5.3000e-003**	**0.2321**	**0.0607**	**5.0100e-003**	**0.0657**		**322.1636**	**322.1636**	**0.0159**		**322.5614**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.7233	0.0000	7.7233	4.2454	0.0000	4.2454			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**4.5627**	**48.1988**	**22.4763**	**0.0380**	**7.7233**	**2.5769**	**10.3002**	**4.2454**	**2.3708**	**6.6161**	**0.0000**	**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0192	0.4913	0.1473	1.0300e-003	0.0240	3.5100e-003	0.0275	6.9700e-003	3.3600e-003	0.0103		109.6599	109.6599	7.9100e-003		109.8578
Worker	0.1101	0.0831	0.8951	2.1400e-003	0.1855	1.7900e-003	0.1873	0.0495	1.6500e-003	0.0512		212.5037	212.5037	8.0000e-003		212.7036
Total	**0.1293**	**0.5745**	**1.0424**	**3.1700e-003**	**0.2094**	**5.3000e-003**	**0.2147**	**0.0565**	**5.0100e-003**	**0.0615**		**322.1636**	**322.1636**	**0.0159**		**322.5614**

3.5 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272		2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**2.7733**	**30.6725**	**16.5770**	**0.0297**	**6.5523**	**1.5513**	**8.1037**	**3.3675**	**1.4272**	**4.7947**		**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0192	0.4913	0.1473	1.0300e-003	0.0256	3.5100e-003	0.0291	7.3700e-003	3.3600e-003	0.0107		109.6599	109.6599	7.9100e-003		109.8578
Worker	0.0917	0.0693	0.7459	1.7800e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		177.0864	177.0864	6.6600e-003		177.2530
Total	**0.1109**	**0.5606**	**0.8932**	**2.8100e-003**	**0.1933**	**5.0000e-003**	**0.1983**	**0.0518**	**4.7400e-003**	**0.0566**		**286.7463**	**286.7463**	**0.0146**		**287.1108**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.8011	0.0000	2.8011	1.4396	0.0000	1.4396			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**2.7733**	**30.6725**	**16.5770**	**0.0297**	**2.8011**	**1.5513**	**4.3524**	**1.4396**	**1.4272**	**2.8668**	**0.0000**	**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0192	0.4913	0.1473	1.0300e-003	0.0240	3.5100e-003	0.0275	6.9700e-003	3.3600e-003	0.0103		109.6599	109.6599	7.9100e-003		109.8578
Worker	0.0917	0.0693	0.7459	1.7800e-003	0.1546	1.4900e-003	0.1560	0.0413	1.3800e-003	0.0426		177.0864	177.0864	6.6600e-003		177.2530
Total	**0.1109**	**0.5606**	**0.8932**	**2.8100e-003**	**0.1785**	**5.0000e-003**	**0.1835**	**0.0482**	**4.7400e-003**	**0.0530**		**286.7463**	**286.7463**	**0.0146**		**287.1108**

3.6 Grading Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0946	0.0000	0.0946	0.0143	0.0000	0.0143			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0946**	**0.0000**	**0.0946**	**0.0143**	**0.0000**	**0.0143**		**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	1.0641	34.2431	7.4775	0.0833	1.8281	0.1310	1.9591	0.5011	0.1253	0.6264		9,002.4461	9,002.4461	0.6549		9,018.8182
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	**1.0641**	**34.2431**	**7.4775**	**0.0833**	**1.8281**	**0.1310**	**1.9591**	**0.5011**	**0.1253**	**0.6264**		**9,002.4461**	**9,002.4461**	**0.6549**		**9,018.8182**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0404	0.0000	0.0404	6.1200e-003	0.0000	6.1200e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0404**	**0.0000**	**0.0404**	**6.1200e-003**	**0.0000**	**6.1200e-003**	**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	1.0641	34.2431	7.4775	0.0833	1.7037	0.1310	1.8347	0.4706	0.1253	0.5959		9,002.4461	9,002.4461	0.6549		9,018.8182
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	**1.0641**	**34.2431**	**7.4775**	**0.0833**	**1.7037**	**0.1310**	**1.8347**	**0.4706**	**0.1253**	**0.5959**		**9,002.4461**	**9,002.4461**	**0.6549**		**9,018.8182**

3.7 Trenching - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5322	5.2595	4.6734	6.2100e-003		0.3726	0.3726		0.3428	0.3428		625.5519	625.5519	0.1947		630.4205
Total	**0.5322**	**5.2595**	**4.6734**	**6.2100e-003**		**0.3726**	**0.3726**		**0.3428**	**0.3428**		**625.5519**	**625.5519**	**0.1947**		**630.4205**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0192	0.4913	0.1473	1.0300e-003	0.0256	3.5100e-003	0.0291	7.3700e-003	3.3600e-003	0.0107		109.6599	109.6599	7.9100e-003		109.8578
Worker	0.0306	0.0231	0.2486	5.9000e-004	0.0559	5.0000e-004	0.0564	0.0148	4.6000e-004	0.0153		59.0288	59.0288	2.2200e-003		59.0843
Total	**0.0498**	**0.5144**	**0.3960**	**1.6200e-003**	**0.0815**	**4.0100e-003**	**0.0855**	**0.0222**	**3.8200e-003**	**0.0260**		**168.6887**	**168.6887**	**0.0101**		**168.9421**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5322	5.2595	4.6734	6.2100e-003		0.3726	0.3726		0.3428	0.3428	0.0000	625.5519	625.5519	0.1947		630.4205
Total	**0.5322**	**5.2595**	**4.6734**	**6.2100e-003**		**0.3726**	**0.3726**		**0.3428**	**0.3428**	**0.0000**	**625.5519**	**625.5519**	**0.1947**		**630.4205**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0192	0.4913	0.1473	1.0300e-003	0.0240	3.5100e-003	0.0275	6.9700e-003	3.3600e-003	0.0103		109.6599	109.6599	7.9100e-003		109.8578
Worker	0.0306	0.0231	0.2486	5.9000e-004	0.0515	5.0000e-004	0.0520	0.0138	4.6000e-004	0.0142		59.0288	59.0288	2.2200e-003		59.0843
Total	**0.0498**	**0.5144**	**0.3960**	**1.6200e-003**	**0.0755**	**4.0100e-003**	**0.0795**	**0.0207**	**3.8200e-003**	**0.0245**		**168.6887**	**168.6887**	**0.0101**		**168.9421**

3.8 Landscaping & Field Lighting - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5789	17.4216	6.7126	0.0133		0.8474	0.8474		0.7796	0.7796		1,341.0686	1,341.0686	0.4175		1,351.5059
Total	**1.5789**	**17.4216**	**6.7126**	**0.0133**		**0.8474**	**0.8474**		**0.7796**	**0.7796**		**1,341.0686**	**1,341.0686**	**0.4175**		**1,351.5059**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0336	0.8599	0.2578	1.8000e-003	0.0448	6.1400e-003	0.0510	0.0129	5.8800e-003	0.0188		191.9049	191.9049	0.0139		192.2511
Worker	0.1101	0.0831	0.8951	2.1400e-003	0.2012	1.7900e-003	0.2030	0.0534	1.6500e-003	0.0550		212.5037	212.5037	8.0000e-003		212.7036
Total	**0.1436**	**0.9430**	**1.1529**	**3.9400e-003**	**0.2460**	**7.9300e-003**	**0.2539**	**0.0663**	**7.5300e-003**	**0.0738**		**404.4086**	**404.4086**	**0.0219**		**404.9547**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5789	17.4216	6.7126	0.0133		0.8474	0.8474		0.7796	0.7796	0.0000	1,341.0686	1,341.0686	0.4175		1,351.5059
Total	**1.5789**	**17.4216**	**6.7126**	**0.0133**		**0.8474**	**0.8474**		**0.7796**	**0.7796**	**0.0000**	**1,341.0686**	**1,341.0686**	**0.4175**		**1,351.5059**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0336	0.8599	0.2578	1.8000e-003	0.0419	6.1400e-003	0.0481	0.0122	5.8800e-003	0.0181		191.9049	191.9049	0.0139		192.2511
Worker	0.1101	0.0831	0.8951	2.1400e-003	0.1855	1.7900e-003	0.1873	0.0495	1.6500e-003	0.0512		212.5037	212.5037	8.0000e-003		212.7036
Total	**0.1436**	**0.9430**	**1.1529**	**3.9400e-003**	**0.2274**	**7.9300e-003**	**0.2353**	**0.0617**	**7.5300e-003**	**0.0692**		**404.4086**	**404.4086**	**0.0219**		**404.9547**

3.9 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718		1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.1470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5709**	**14.5184**	**12.4333**	**0.0189**		**0.8370**	**0.8370**		**0.7718**	**0.7718**		**1,872.5505**	**1,872.5505**	**0.5672**		**1,886.7312**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1223	0.0923	0.9945	2.3700e-003	0.2236	1.9900e-003	0.2256	0.0593	1.8400e-003	0.0611		236.1152	236.1152	8.8900e-003		236.3373
Total	**0.1223**	**0.0923**	**0.9945**	**2.3700e-003**	**0.2236**	**1.9900e-003**	**0.2256**	**0.0593**	**1.8400e-003**	**0.0611**		**236.1152**	**236.1152**	**8.8900e-003**		**236.3373**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718	0.0000	1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.1470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5709**	**14.5184**	**12.4333**	**0.0189**		**0.8370**	**0.8370**		**0.7718**	**0.7718**	**0.0000**	**1,872.5505**	**1,872.5505**	**0.5672**		**1,886.7312**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1223	0.0923	0.9945	2.3700e-003	0.2061	1.9900e-003	0.2081	0.0550	1.8400e-003	0.0568		236.1152	236.1152	8.8900e-003		236.3373
Total	**0.1223**	**0.0923**	**0.9945**	**2.3700e-003**	**0.2061**	**1.9900e-003**	**0.2081**	**0.0550**	**1.8400e-003**	**0.0568**		**236.1152**	**236.1152**	**8.8900e-003**		**236.3373**

3.10 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.7493					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	**1.0480**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.1171**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2600e-003	0.0728	0.0159	1.8000e-004	3.8900e-003	2.8000e-004	4.1600e-003	1.0600e-003	2.7000e-004	1.3300e-003		19.1325	19.1325	1.3900e-003		19.1673
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	0.0245	0.0185	0.1989	4.7000e-004	0.0447	4.0000e-004	0.0451	0.0119	3.7000e-004	0.0122		47.2230	47.2230	1.7800e-003		47.2675
Total	**0.0267**	**0.0913**	**0.2148**	**6.5000e-004**	**0.0486**	**6.8000e-004**	**0.0493**	**0.0129**	**6.4000e-004**	**0.0136**		**66.3556**	**66.3556**	**3.1700e-003**		**66.4348**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7493					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	**1.0480**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.1171**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2600e-003	0.0728	0.0159	1.8000e-004	3.6200e-003	2.8000e-004	3.9000e-003	1.0000e-003	2.7000e-004	1.2700e-003		19.1325	19.1325	1.3900e-003		19.1673
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	0.0245	0.0185	0.1989	4.7000e-004	0.0412	4.0000e-004	0.0416	0.0110	3.7000e-004	0.0114		47.2230	47.2230	1.7800e-003		47.2675
Total	**0.0267**	**0.0913**	**0.2148**	**6.5000e-004**	**0.0448**	**6.8000e-004**	**0.0455**	**0.0120**	**6.4000e-004**	**0.0126**		**66.3556**	**66.3556**	**3.1700e-003**		**66.4348**

Wilson Midle School Construction-- Mitigated

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	42.15	1000sqft	1.01	42,145.00	0
Other Non-Asphalt Surfaces	123.92	1000sqft	2.84	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2019
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	383.88	**CH4 Intensity (lb/MWhr)**	0.095	**N2O Intensity (lb/MWhr)**	0.012

1.3 User Entered Comments & Non-Default Data

Project Characteristics - **City of Glendale Power Mix from California Department of Energy. Utility Annual Power Content Labels for 2016. 2016 City of Glendale Power Content Label. http://www.energy.ca.gov/pcl/labels/

Land Use - See CalEEMod Assumptions

Construction Phase - See CalEEMod Assumptions

Off-road Equipment -

Off-road Equipment - Haul

Off-road Equipment - Haul

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - See CalEEMod Assumptions

Off-road Equipment - See CalEEMod Assumptions

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - CalEEMod assumtions

Trips and VMT - See ClaEEMod Assumtpions

Demolition -

Grading -

Architectural Coating - See CalEEMod Assumptions

Vehicle Trips -

Construction Off-road Equipment Mitigation - See CalEEMod Assumptions

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	0.00	823.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	0.00	2,468.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	55
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	55
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
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
tblConstructionPhase	NumDays	8.00	16.00
tblConstructionPhase	NumDays	8.00	16.00
tblConstructionPhase	NumDays	230.00	18.00
tblGrading	MaterialExported	0.00	13,381.00
tblLandUse	LandUseSquareFeet	42,150.00	42,145.00
tblLandUse	LandUseSquareFeet	123,920.00	0.00
tblLandUse	LotAcreage	0.97	1.01
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.095
tblProjectCharacteristics	CO2IntensityFactor	0	383.88
tblProjectCharacteristics	N2OIntensityFactor	0	0.012
tblTripsAndVMT	HaulingTripNumber	31.00	32.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

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					
2018	4.6806	65.0057	24.5108	0.1174	18.2931	2.5822	20.8752	9.9914	2.3757	12.3671	0.0000	12,444.3917	12,444.3917	1.5750	0.0000	12,483.7660
Maximum	**4.6806**	**65.0057**	**24.5108**	**0.1174**	**18.2931**	**2.5822**	**20.8752**	**9.9914**	**2.3757**	**12.3671**	**0.0000**	**12,444.3917**	**12,444.3917**	**1.5750**	**0.0000**	**12,483.7660**

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					
2018	1.5023	35.9069	25.6865	0.1174	7.9328	0.1819	8.0001	4.3018	0.1761	4.3689	0.0000	12,444.3917	12,444.3917	1.5750	0.0000	12,483.7660
Maximum	**1.5023**	**35.9069**	**25.6865**	**0.1174**	**7.9328**	**0.1819**	**8.0001**	**4.3018**	**0.1761**	**4.3689**	**0.0000**	**12,444.3917**	**12,444.3917**	**1.5750**	**0.0000**	**12,483.7660**

	ROG	NOx	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	**67.90**	**44.76**	**-4.80**	**0.00**	**56.64**	**92.96**	**61.68**	**56.94**	**92.59**	**64.67**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Asphalt Demo	Demolition	6/1/2018	6/28/2018	5	20	
2	Asphalt Demo Haul	Demolition	6/1/2018	6/28/2018	5	20	
3	Site Preparation	Site Preparation	6/29/2018	7/5/2018	5	5	
4	Grading	Grading	7/6/2018	7/27/2018	5	16	
5	Grading Haul	Grading	7/6/2018	7/27/2018	5	16	
6	Trenching	Trenching	7/28/2018	8/6/2018	5	6	
7	Landscaping & Field Lighting	Building Construction	8/7/2018	8/30/2018	5	18	
8	Paving	Paving	8/7/2018	8/30/2018	5	18	
9	Architectural Coating	Architectural Coating	9/1/2018	9/26/2018	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 8

Acres of Paving: 3.85

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,468; Non-Residential Outdoor: 823; Striped Parking Area: 2,529

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Asphalt Demo	Concrete/Industrial Saws	1	8.00	81	0.73
Asphalt Demo	Excavators	3	8.00	158	0.38
Asphalt Demo	Rubber Tired Dozers	2	8.00	247	0.40
Asphalt Demo Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demo Haul	Excavators	0	8.00	158	0.38
Asphalt Demo Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading Haul	Excavators	0	8.00	158	0.38
Grading Haul	Graders	0	8.00	187	0.41
Grading Haul	Rubber Tired Dozers	0	8.00	247	0.40
Grading Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Landscaping & Field Lighting	Cranes	1	8.00	231	0.29
Landscaping & Field Lighting	Forklifts	1	6.00	89	0.20
Landscaping & Field Lighting	Generator Sets	0	8.00	84	0.74
Landscaping & Field Lighting	Rubber Tired Dozers	1	6.00	247	0.40
Landscaping & Field Lighting	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Landscaping & Field Lighting	Welders	0	8.00	46	0.45

Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Asphalt Demo	6	15.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demo Haul	0	0.00	0.00	32.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading Haul	0	0.00	0.00	1,673.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	2	5.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Landscaping & Field Lighting	3	18.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	4.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Asphalt Demo - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.7665	3,871.7665	1.0667		3,898.4344
Total	**3.7190**	**38.3225**	**22.3040**	**0.0388**	**0.0000**	**1.9386**	**1.9386**	**0.0000**	**1.8048**	**1.8048**		**3,871.7665**	**3,871.7665**	**1.0667**		**3,898.4344**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0184	0.4902	0.1340	1.0600e-003	0.0256	3.4500e-003	0.0291	7.3700e-003	3.3000e-003	0.0107		112.6718	112.6718	7.4200e-003		112.8572
Worker	0.0829	0.0625	0.8101	1.8900e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		188.0535	188.0535	7.0500e-003		188.2298
Total	**0.1013**	**0.5528**	**0.9442**	**2.9500e-003**	**0.1933**	**4.9400e-003**	**0.1982**	**0.0518**	**4.6800e-003**	**0.0565**		**300.7252**	**300.7252**	**0.0145**		**301.0871**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,871.7665	3,871.7665	1.0667		3,898.4344
Total	**0.4623**	**2.0032**	**23.2798**	**0.0388**	**0.0000**	**0.0616**	**0.0616**	**0.0000**	**0.0616**	**0.0616**	**0.0000**	**3,871.7665**	**3,871.7665**	**1.0667**		**3,898.4344**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0184	0.4902	0.1340	1.0600e-003	0.0240	3.4500e-003	0.0274	6.9700e-003	3.3000e-003	0.0103		112.6718	112.6718	7.4200e-003		112.8572
Worker	0.0829	0.0625	0.8101	1.8900e-003	0.1546	1.4900e-003	0.1560	0.0413	1.3800e-003	0.0426		188.0535	188.0535	7.0500e-003		188.2298
Total	**0.1013**	**0.5528**	**0.9442**	**2.9500e-003**	**0.1785**	**4.9400e-003**	**0.1835**	**0.0482**	**4.6800e-003**	**0.0529**		**300.7252**	**300.7252**	**0.0145**		**301.0871**

3.3 Asphalt Demo Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3381	0.0000	0.3381	0.0512	0.0000	0.0512			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.3381**	**0.0000**	**0.3381**	**0.0512**	**0.0000**	**0.0512**		**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	0.0159	0.5169	0.1070	1.3000e-003	0.0280	1.9700e-003	0.0299	7.6700e-003	1.8800e-003	9.5500e-003		140.0983	140.0983	9.6400e-003		140.3395
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	**0.0159**	**0.5169**	**0.1070**	**1.3000e-003**	**0.0280**	**1.9700e-003**	**0.0299**	**7.6700e-003**	**1.8800e-003**	**9.5500e-003**		**140.0983**	**140.0983**	**9.6400e-003**		**140.3395**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1445	0.0000	0.1445	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.1445**	**0.0000**	**0.1445**	**0.0219**	**0.0000**	**0.0219**	**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	0.0159	0.5169	0.1070	1.3000e-003	0.0261	1.9700e-003	0.0280	7.2000e-003	1.8800e-003	9.0800e-003		140.0983	140.0983	9.6400e-003		140.3395
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	**0.0159**	**0.5169**	**0.1070**	**1.3000e-003**	**0.0261**	**1.9700e-003**	**0.0280**	**7.2000e-003**	**1.8800e-003**	**9.0800e-003**		**140.0983**	**140.0983**	**9.6400e-003**		**140.3395**

3.4 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**4.5627**	**48.1988**	**22.4763**	**0.0380**	**18.0663**	**2.5769**	**20.6432**	**9.9307**	**2.3708**	**12.3014**		**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0184	0.4902	0.1340	1.0600e-003	0.0256	3.4500e-003	0.0291	7.3700e-003	3.3000e-003	0.0107		112.6718	112.6718	7.4200e-003		112.8572
Worker	0.0995	0.0751	0.9721	2.2700e-003	0.2012	1.7900e-003	0.2030	0.0534	1.6500e-003	0.0550		225.6642	225.6642	8.4600e-003		225.8758
Total	**0.1179**	**0.5653**	**1.1062**	**3.3300e-003**	**0.2268**	**5.2400e-003**	**0.2321**	**0.0607**	**4.9500e-003**	**0.0657**		**338.3359**	**338.3359**	**0.0159**		**338.7330**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.7233	0.0000	7.7233	4.2454	0.0000	4.2454			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**0.4656**	**2.0175**	**20.8690**	**0.0380**	**7.7233**	**0.0621**	**7.7854**	**4.2454**	**0.0621**	**4.3075**	**0.0000**	**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0184	0.4902	0.1340	1.0600e-003	0.0240	3.4500e-003	0.0274	6.9700e-003	3.3000e-003	0.0103		112.6718	112.6718	7.4200e-003		112.8572
Worker	0.0995	0.0751	0.9721	2.2700e-003	0.1855	1.7900e-003	0.1873	0.0495	1.6500e-003	0.0512		225.6642	225.6642	8.4600e-003		225.8758
Total	**0.1179**	**0.5653**	**1.1062**	**3.3300e-003**	**0.2094**	**5.2400e-003**	**0.2147**	**0.0565**	**4.9500e-003**	**0.0614**		**338.3359**	**338.3359**	**0.0159**		**338.7330**

3.5 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272		2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**2.7733**	**30.6725**	**16.5770**	**0.0297**	**6.5523**	**1.5513**	**8.1037**	**3.3675**	**1.4272**	**4.7947**		**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0184	0.4902	0.1340	1.0600e-003	0.0256	3.4500e-003	0.0291	7.3700e-003	3.3000e-003	0.0107		112.6718	112.6718	7.4200e-003		112.8572
Worker	0.0829	0.0625	0.8101	1.8900e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		188.0535	188.0535	7.0500e-003		188.2298
Total	**0.1013**	**0.5528**	**0.9442**	**2.9500e-003**	**0.1933**	**4.9400e-003**	**0.1982**	**0.0518**	**4.6800e-003**	**0.0565**		**300.7252**	**300.7252**	**0.0145**		**301.0871**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.8011	0.0000	2.8011	1.4396	0.0000	1.4396			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**0.3632**	**1.5737**	**17.7527**	**0.0297**	**2.8011**	**0.0484**	**2.8495**	**1.4396**	**0.0484**	**1.4880**	**0.0000**	**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0184	0.4902	0.1340	1.0600e-003	0.0240	3.4500e-003	0.0274	6.9700e-003	3.3000e-003	0.0103		112.6718	112.6718	7.4200e-003		112.8572
Worker	0.0829	0.0625	0.8101	1.8900e-003	0.1546	1.4900e-003	0.1560	0.0413	1.3800e-003	0.0426		188.0535	188.0535	7.0500e-003		188.2298
Total	**0.1013**	**0.5528**	**0.9442**	**2.9500e-003**	**0.1785**	**4.9400e-003**	**0.1835**	**0.0482**	**4.6800e-003**	**0.0529**		**300.7252**	**300.7252**	**0.0145**		**301.0871**

3.6 Grading Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0946	0.0000	0.0946	0.0143	0.0000	0.0143			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0946**	**0.0000**	**0.0946**	**0.0143**	**0.0000**	**0.0143**		**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	1.0379	33.7804	6.9897	0.0848	1.8281	0.1285	1.9566	0.5011	0.1229	0.6240		9,155.6448	9,155.6448	0.6303		9,171.4020
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	**1.0379**	**33.7804**	**6.9897**	**0.0848**	**1.8281**	**0.1285**	**1.9566**	**0.5011**	**0.1229**	**0.6240**		**9,155.6448**	**9,155.6448**	**0.6303**		**9,171.4020**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0404	0.0000	0.0404	6.1200e-003	0.0000	6.1200e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0404**	**0.0000**	**0.0404**	**6.1200e-003**	**0.0000**	**6.1200e-003**	**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	1.0379	33.7804	6.9897	0.0848	1.7037	0.1285	1.8322	0.4706	0.1229	0.5935		9,155.6448	9,155.6448	0.6303		9,171.4020
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	**1.0379**	**33.7804**	**6.9897**	**0.0848**	**1.7037**	**0.1285**	**1.8322**	**0.4706**	**0.1229**	**0.5935**		**9,155.6448**	**9,155.6448**	**0.6303**		**9,171.4020**

3.7 Trenching - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5322	5.2595	4.6734	6.2100e-003		0.3726	0.3726		0.3428	0.3428		625.5519	625.5519	0.1947		630.4205
Total	**0.5322**	**5.2595**	**4.6734**	**6.2100e-003**		**0.3726**	**0.3726**		**0.3428**	**0.3428**		**625.5519**	**625.5519**	**0.1947**		**630.4205**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0184	0.4902	0.1340	1.0600e-003	0.0256	3.4500e-003	0.0291	7.3700e-003	3.3000e-003	0.0107		112.6718	112.6718	7.4200e-003		112.8572
Worker	0.0276	0.0209	0.2700	6.3000e-004	0.0559	5.0000e-004	0.0564	0.0148	4.6000e-004	0.0153		62.6845	62.6845	2.3500e-003		62.7433
Total	**0.0460**	**0.5111**	**0.4041**	**1.6900e-003**	**0.0815**	**3.9500e-003**	**0.0855**	**0.0222**	**3.7600e-003**	**0.0260**		**175.3563**	**175.3563**	**9.7700e-003**		**175.6005**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0760	0.3292	4.6841	6.2100e-003		0.0101	0.0101		0.0101	0.0101	0.0000	625.5519	625.5519	0.1947		630.4205
Total	**0.0760**	**0.3292**	**4.6841**	**6.2100e-003**		**0.0101**	**0.0101**		**0.0101**	**0.0101**	**0.0000**	**625.5519**	**625.5519**	**0.1947**		**630.4205**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0184	0.4902	0.1340	1.0600e-003	0.0240	3.4500e-003	0.0274	6.9700e-003	3.3000e-003	0.0103		112.6718	112.6718	7.4200e-003		112.8572
Worker	0.0276	0.0209	0.2700	6.3000e-004	0.0515	5.0000e-004	0.0520	0.0138	4.6000e-004	0.0142		62.6845	62.6845	2.3500e-003		62.7433
Total	**0.0460**	**0.5111**	**0.4041**	**1.6900e-003**	**0.0755**	**3.9500e-003**	**0.0794**	**0.0207**	**3.7600e-003**	**0.0245**		**175.3563**	**175.3563**	**9.7700e-003**		**175.6005**

3.8 Landscaping & Field Lighting - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5789	17.4216	6.7126	0.0133		0.8474	0.8474		0.7796	0.7796		1,341.0686	1,341.0686	0.4175		1,351.5059
Total	**1.5789**	**17.4216**	**6.7126**	**0.0133**		**0.8474**	**0.8474**		**0.7796**	**0.7796**		**1,341.0686**	**1,341.0686**	**0.4175**		**1,351.5059**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0322	0.8579	0.2346	1.8500e-003	0.0448	6.0500e-003	0.0509	0.0129	5.7800e-003	0.0187		197.1756	197.1756	0.0130		197.5002
Worker	0.0995	0.0751	0.9721	2.2700e-003	0.2012	1.7900e-003	0.2030	0.0534	1.6500e-003	0.0550		225.6642	225.6642	8.4600e-003		225.8758
Total	**0.1317**	**0.9330**	**1.2067**	**4.1200e-003**	**0.2460**	**7.8400e-003**	**0.2539**	**0.0663**	**7.4300e-003**	**0.0737**		**422.8398**	**422.8398**	**0.0214**		**423.3759**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1634	0.7082	6.3457	0.0133		0.0218	0.0218		0.0218	0.0218	0.0000	1,341.0686	1,341.0686	0.4175		1,351.5059
Total	**0.1634**	**0.7082**	**6.3457**	**0.0133**		**0.0218**	**0.0218**		**0.0218**	**0.0218**	**0.0000**	**1,341.0686**	**1,341.0686**	**0.4175**		**1,351.5059**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0322	0.8579	0.2346	1.8500e-003	0.0419	6.0500e-003	0.0480	0.0122	5.7800e-003	0.0180		197.1756	197.1756	0.0130		197.5002
Worker	0.0995	0.0751	0.9721	2.2700e-003	0.1855	1.7900e-003	0.1873	0.0495	1.6500e-003	0.0512		225.6642	225.6642	8.4600e-003		225.8758
Total	**0.1317**	**0.9330**	**1.2067**	**4.1200e-003**	**0.2274**	**7.8400e-003**	**0.2352**	**0.0617**	**7.4300e-003**	**0.0691**		**422.8398**	**422.8398**	**0.0214**		**423.3759**

3.9 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718		1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.1470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5709**	**14.5184**	**12.4333**	**0.0189**		**0.8370**	**0.8370**		**0.7718**	**0.7718**		**1,872.5505**	**1,872.5505**	**0.5672**		**1,886.7312**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1105	0.0834	1.0802	2.5200e-003	0.2236	1.9900e-003	0.2256	0.0593	1.8400e-003	0.0611		250.7380	250.7380	9.4000e-003		250.9731
Total	**0.1105**	**0.0834**	**1.0802**	**2.5200e-003**	**0.2236**	**1.9900e-003**	**0.2256**	**0.0593**	**1.8400e-003**	**0.0611**		**250.7380**	**250.7380**	**9.4000e-003**		**250.9731**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3076	1.5032	13.9949	0.0189		0.0510	0.0510		0.0510	0.0510	0.0000	1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.1470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4546**	**1.5032**	**13.9949**	**0.0189**		**0.0510**	**0.0510**		**0.0510**	**0.0510**	**0.0000**	**1,872.5505**	**1,872.5505**	**0.5672**		**1,886.7312**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1105	0.0834	1.0802	2.5200e-003	0.2061	1.9900e-003	0.2081	0.0550	1.8400e-003	0.0568		250.7380	250.7380	9.4000e-003		250.9731
Total	**0.1105**	**0.0834**	**1.0802**	**2.5200e-003**	**0.2061**	**1.9900e-003**	**0.2081**	**0.0550**	**1.8400e-003**	**0.0568**		**250.7380**	**250.7380**	**9.4000e-003**		**250.9731**

3.10 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.7493					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	**1.0480**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.1171**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2100e-003	0.0718	0.0149	1.8000e-004	3.8900e-003	2.7000e-004	4.1600e-003	1.0600e-003	2.6000e-004	1.3300e-003		19.4581	19.4581	1.3400e-003		19.4916
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	0.0221	0.0167	0.2160	5.0000e-004	0.0447	4.0000e-004	0.0451	0.0119	3.7000e-004	0.0122		50.1476	50.1476	1.8800e-003		50.1946
Total	**0.0243**	**0.0885**	**0.2309**	**6.8000e-004**	**0.0486**	**6.7000e-004**	**0.0493**	**0.0129**	**6.3000e-004**	**0.0136**		**69.6057**	**69.6057**	**3.2200e-003**		**69.6862**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7493					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	**1.0480**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.1171**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2100e-003	0.0718	0.0149	1.8000e-004	3.6200e-003	2.7000e-004	3.8900e-003	1.0000e-003	2.6000e-004	1.2600e-003		19.4581	19.4581	1.3400e-003		19.4916
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	0.0221	0.0167	0.2160	5.0000e-004	0.0412	4.0000e-004	0.0416	0.0110	3.7000e-004	0.0114		50.1476	50.1476	1.8800e-003		50.1946
Total	**0.0243**	**0.0885**	**0.2309**	**6.8000e-004**	**0.0448**	**6.7000e-004**	**0.0455**	**0.0120**	**6.3000e-004**	**0.0126**		**69.6057**	**69.6057**	**3.2200e-003**		**69.6862**

Wilson Midle School Construction-- Mitigated

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	42.15	1000sqft	1.01	42,145.00	0
Other Non-Asphalt Surfaces	123.92	1000sqft	2.84	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2019
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	383.88	**CH4 Intensity (lb/MWhr)**	0.095	**N2O Intensity (lb/MWhr)**	0.012

1.3 User Entered Comments & Non-Default Data

Project Characteristics - **City of Glendale Power Mix from California Department of Energy. Utility Annual Power Content Labels for 2016. 2016 City of Glendale Power Content Label. http://www.energy.ca.gov/pcl/labels/

Land Use - See CalEEMod Assumptions

Construction Phase - See CalEEMod Assumptions

Off-road Equipment -

Off-road Equipment - Haul

Off-road Equipment - Haul

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - See CalEEMod Assumptions

Off-road Equipment - See CalEEMod Assumptions

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - CalEEMod assumtions

Trips and VMT - See ClaEEMod Assumtpions

Demolition -

Grading -

Architectural Coating - See CalEEMod Assumptions

Vehicle Trips -

Construction Off-road Equipment Mitigation - See CalEEMod Assumptions

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	0.00	823.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	0.00	2,468.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	55
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	55
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
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
tblConstructionPhase	NumDays	8.00	16.00
tblConstructionPhase	NumDays	8.00	16.00
tblConstructionPhase	NumDays	230.00	18.00
tblGrading	MaterialExported	0.00	13,381.00
tblLandUse	LandUseSquareFeet	42,150.00	42,145.00
tblLandUse	LandUseSquareFeet	123,920.00	0.00
tblLandUse	LotAcreage	0.97	1.01
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.095
tblProjectCharacteristics	CO2IntensityFactor	0	383.88
tblProjectCharacteristics	N2OIntensityFactor	0	0.012
tblTripsAndVMT	HaulingTripNumber	31.00	32.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

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					
2018	4.6920	65.4762	24.9477	0.1158	18.2931	2.5822	20.8753	9.9914	2.3758	12.3672	0.0000	12,277.2140	12,277.2140	1.5997	0.0000	12,317.2058
Maximum	**4.6920**	**65.4762**	**24.9477**	**0.1158**	**18.2931**	**2.5822**	**20.8753**	**9.9914**	**2.3758**	**12.3672**	**0.0000**	**12,277.2140**	**12,277.2140**	**1.5997**	**0.0000**	**12,317.2058**

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					
2018	1.5382	36.3774	26.1234	0.1158	7.9328	0.1844	8.0001	4.3018	0.1785	4.3689	0.0000	12,277.2140	12,277.2140	1.5997	0.0000	12,317.2058
Maximum	**1.5382**	**36.3774**	**26.1234**	**0.1158**	**7.9328**	**0.1844**	**8.0001**	**4.3018**	**0.1785**	**4.3689**	**0.0000**	**12,277.2140**	**12,277.2140**	**1.5997**	**0.0000**	**12,317.2058**

	ROG	**NOx**	**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	**67.22**	**44.44**	**-4.71**	**0.00**	**56.64**	**92.86**	**61.68**	**56.94**	**92.49**	**64.67**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Asphalt Demo	Demolition	6/1/2018	6/28/2018	5	20	
2	Asphalt Demo Haul	Demolition	6/1/2018	6/28/2018	5	20	
3	Site Preparation	Site Preparation	6/29/2018	7/5/2018	5	5	
4	Grading	Grading	7/6/2018	7/27/2018	5	16	
5	Grading Haul	Grading	7/6/2018	7/27/2018	5	16	
6	Trenching	Trenching	7/28/2018	8/6/2018	5	6	
7	Landscaping & Field Lighting	Building Construction	8/7/2018	8/30/2018	5	18	
8	Paving	Paving	8/7/2018	8/30/2018	5	18	
9	Architectural Coating	Architectural Coating	9/1/2018	9/26/2018	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 8

Acres of Paving: 3.85

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,468; Non-Residential Outdoor: 823; Striped Parking Area: 2,529

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Asphalt Demo	Concrete/Industrial Saws	1	8.00	81	0.73
Asphalt Demo	Excavators	3	8.00	158	0.38
Asphalt Demo	Rubber Tired Dozers	2	8.00	247	0.40
Asphalt Demo Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demo Haul	Excavators	0	8.00	158	0.38
Asphalt Demo Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading Haul	Excavators	0	8.00	158	0.38
Grading Haul	Graders	0	8.00	187	0.41
Grading Haul	Rubber Tired Dozers	0	8.00	247	0.40
Grading Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Landscaping & Field Lighting	Cranes	1	8.00	231	0.29
Landscaping & Field Lighting	Forklifts	1	6.00	89	0.20
Landscaping & Field Lighting	Generator Sets	0	8.00	84	0.74
Landscaping & Field Lighting	Rubber Tired Dozers	1	6.00	247	0.40
Landscaping & Field Lighting	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Landscaping & Field Lighting	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Asphalt Demo	6	15.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demo Haul	0	0.00	0.00	32.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading Haul	0	0.00	0.00	1,673.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	2	5.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Landscaping & Field Lighting	3	18.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	4.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Asphalt Demo - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.7665	3,871.7665	1.0667		3,898.4344
Total	**3.7190**	**38.3225**	**22.3040**	**0.0388**	**0.0000**	**1.9386**	**1.9386**	**0.0000**	**1.8048**	**1.8048**		**3,871.7665**	**3,871.7665**	**1.0667**		**3,898.4344**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0192	0.4913	0.1473	1.0300e-003	0.0256	3.5100e-003	0.0291	7.3700e-003	3.3600e-003	0.0107		109.6599	109.6599	7.9100e-003		109.8578
Worker	0.0917	0.0693	0.7459	1.7800e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		177.0864	177.0864	6.6600e-003		177.2530
Total	**0.1109**	**0.5606**	**0.8932**	**2.8100e-003**	**0.1933**	**5.0000e-003**	**0.1983**	**0.0518**	**4.7400e-003**	**0.0566**		**286.7463**	**286.7463**	**0.0146**		**287.1108**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,871.7665	3,871.7665	1.0667		3,898.4344
Total	**0.4623**	**2.0032**	**23.2798**	**0.0388**	**0.0000**	**0.0616**	**0.0616**	**0.0000**	**0.0616**	**0.0616**	**0.0000**	**3,871.7665**	**3,871.7665**	**1.0667**		**3,898.4344**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0192	0.4913	0.1473	1.0300e-003	0.0240	3.5100e-003	0.0275	6.9700e-003	3.3600e-003	0.0103		109.6599	109.6599	7.9100e-003		109.8578
Worker	0.0917	0.0693	0.7459	1.7800e-003	0.1546	1.4900e-003	0.1560	0.0413	1.3800e-003	0.0426		177.0864	177.0864	6.6600e-003		177.2530
Total	**0.1109**	**0.5606**	**0.8932**	**2.8100e-003**	**0.1785**	**5.0000e-003**	**0.1835**	**0.0482**	**4.7400e-003**	**0.0530**		**286.7463**	**286.7463**	**0.0146**		**287.1108**

3.3 Asphalt Demo Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3381	0.0000	0.3381	0.0512	0.0000	0.0512			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.3381**	**0.0000**	**0.3381**	**0.0512**	**0.0000**	**0.0512**		**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	0.0163	0.5240	0.1144	1.2800e-003	0.0280	2.0000e-003	0.0300	7.6700e-003	1.9200e-003	9.5900e-003		137.7541	137.7541	0.0100		138.0046
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	**0.0163**	**0.5240**	**0.1144**	**1.2800e-003**	**0.0280**	**2.0000e-003**	**0.0300**	**7.6700e-003**	**1.9200e-003**	**9.5900e-003**		**137.7541**	**137.7541**	**0.0100**		**138.0046**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1445	0.0000	0.1445	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.1445**	**0.0000**	**0.1445**	**0.0219**	**0.0000**	**0.0219**	**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	0.0163	0.5240	0.1144	1.2800e-003	0.0261	2.0000e-003	0.0281	7.2000e-003	1.9200e-003	9.1200e-003		137.7541	137.7541	0.0100		138.0046
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	**0.0163**	**0.5240**	**0.1144**	**1.2800e-003**	**0.0261**	**2.0000e-003**	**0.0281**	**7.2000e-003**	**1.9200e-003**	**9.1200e-003**		**137.7541**	**137.7541**	**0.0100**		**138.0046**

3.4 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**4.5627**	**48.1988**	**22.4763**	**0.0380**	**18.0663**	**2.5769**	**20.6432**	**9.9307**	**2.3708**	**12.3014**		**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0192	0.4913	0.1473	1.0300e-003	0.0256	3.5100e-003	0.0291	7.3700e-003	3.3600e-003	0.0107		109.6599	109.6599	7.9100e-003		109.8578
Worker	0.1101	0.0831	0.8951	2.1400e-003	0.2012	1.7900e-003	0.2030	0.0534	1.6500e-003	0.0550		212.5037	212.5037	8.0000e-003		212.7036
Total	**0.1293**	**0.5745**	**1.0424**	**3.1700e-003**	**0.2268**	**5.3000e-003**	**0.2321**	**0.0607**	**5.0100e-003**	**0.0657**		**322.1636**	**322.1636**	**0.0159**		**322.5614**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.7233	0.0000	7.7233	4.2454	0.0000	4.2454			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**0.4656**	**2.0175**	**20.8690**	**0.0380**	**7.7233**	**0.0621**	**7.7854**	**4.2454**	**0.0621**	**4.3075**	**0.0000**	**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0192	0.4913	0.1473	1.0300e-003	0.0240	3.5100e-003	0.0275	6.9700e-003	3.3600e-003	0.0103		109.6599	109.6599	7.9100e-003		109.8578
Worker	0.1101	0.0831	0.8951	2.1400e-003	0.1855	1.7900e-003	0.1873	0.0495	1.6500e-003	0.0512		212.5037	212.5037	8.0000e-003		212.7036
Total	**0.1293**	**0.5745**	**1.0424**	**3.1700e-003**	**0.2094**	**5.3000e-003**	**0.2147**	**0.0565**	**5.0100e-003**	**0.0615**		**322.1636**	**322.1636**	**0.0159**		**322.5614**

3.5 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272		2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**2.7733**	**30.6725**	**16.5770**	**0.0297**	**6.5523**	**1.5513**	**8.1037**	**3.3675**	**1.4272**	**4.7947**		**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0192	0.4913	0.1473	1.0300e-003	0.0256	3.5100e-003	0.0291	7.3700e-003	3.3600e-003	0.0107		109.6599	109.6599	7.9100e-003		109.8578
Worker	0.0917	0.0693	0.7459	1.7800e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		177.0864	177.0864	6.6600e-003		177.2530
Total	**0.1109**	**0.5606**	**0.8932**	**2.8100e-003**	**0.1933**	**5.0000e-003**	**0.1983**	**0.0518**	**4.7400e-003**	**0.0566**		**286.7463**	**286.7463**	**0.0146**		**287.1108**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.8011	0.0000	2.8011	1.4396	0.0000	1.4396			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**0.3632**	**1.5737**	**17.7527**	**0.0297**	**2.8011**	**0.0484**	**2.8495**	**1.4396**	**0.0484**	**1.4880**	**0.0000**	**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0192	0.4913	0.1473	1.0300e-003	0.0240	3.5100e-003	0.0275	6.9700e-003	3.3600e-003	0.0103		109.6599	109.6599	7.9100e-003		109.8578
Worker	0.0917	0.0693	0.7459	1.7800e-003	0.1546	1.4900e-003	0.1560	0.0413	1.3800e-003	0.0426		177.0864	177.0864	6.6600e-003		177.2530
Total	**0.1109**	**0.5606**	**0.8932**	**2.8100e-003**	**0.1785**	**5.0000e-003**	**0.1835**	**0.0482**	**4.7400e-003**	**0.0530**		**286.7463**	**286.7463**	**0.0146**		**287.1108**

3.6 Grading Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0946	0.0000	0.0946	0.0143	0.0000	0.0143			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0946**	**0.0000**	**0.0946**	**0.0143**	**0.0000**	**0.0143**		**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	1.0641	34.2431	7.4775	0.0833	1.8281	0.1310	1.9591	0.5011	0.1253	0.6264		9,002.4461	9,002.4461	0.6549		9,018.8182
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	**1.0641**	**34.2431**	**7.4775**	**0.0833**	**1.8281**	**0.1310**	**1.9591**	**0.5011**	**0.1253**	**0.6264**		**9,002.4461**	**9,002.4461**	**0.6549**		**9,018.8182**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0404	0.0000	0.0404	6.1200e-003	0.0000	6.1200e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0404**	**0.0000**	**0.0404**	**6.1200e-003**	**0.0000**	**6.1200e-003**	**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	1.0641	34.2431	7.4775	0.0833	1.7037	0.1310	1.8347	0.4706	0.1253	0.5959		9,002.4461	9,002.4461	0.6549		9,018.8182
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	**1.0641**	**34.2431**	**7.4775**	**0.0833**	**1.7037**	**0.1310**	**1.8347**	**0.4706**	**0.1253**	**0.5959**		**9,002.4461**	**9,002.4461**	**0.6549**		**9,018.8182**

3.7 Trenching - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5322	5.2595	4.6734	6.2100e-003		0.3726	0.3726		0.3428	0.3428		625.5519	625.5519	0.1947		630.4205
Total	**0.5322**	**5.2595**	**4.6734**	**6.2100e-003**		**0.3726**	**0.3726**		**0.3428**	**0.3428**		**625.5519**	**625.5519**	**0.1947**		**630.4205**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0192	0.4913	0.1473	1.0300e-003	0.0256	3.5100e-003	0.0291	7.3700e-003	3.3600e-003	0.0107		109.6599	109.6599	7.9100e-003		109.8578
Worker	0.0306	0.0231	0.2486	5.9000e-004	0.0559	5.0000e-004	0.0564	0.0148	4.6000e-004	0.0153		59.0288	59.0288	2.2200e-003		59.0843
Total	**0.0498**	**0.5144**	**0.3960**	**1.6200e-003**	**0.0815**	**4.0100e-003**	**0.0855**	**0.0222**	**3.8200e-003**	**0.0260**		**168.6887**	**168.6887**	**0.0101**		**168.9421**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0760	0.3292	4.6841	6.2100e-003		0.0101	0.0101		0.0101	0.0101	0.0000	625.5519	625.5519	0.1947		630.4205
Total	**0.0760**	**0.3292**	**4.6841**	**6.2100e-003**		**0.0101**	**0.0101**		**0.0101**	**0.0101**	**0.0000**	**625.5519**	**625.5519**	**0.1947**		**630.4205**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0192	0.4913	0.1473	1.0300e-003	0.0240	3.5100e-003	0.0275	6.9700e-003	3.3600e-003	0.0103		109.6599	109.6599	7.9100e-003		109.8578
Worker	0.0306	0.0231	0.2486	5.9000e-004	0.0515	5.0000e-004	0.0520	0.0138	4.6000e-004	0.0142		59.0288	59.0288	2.2200e-003		59.0843
Total	**0.0498**	**0.5144**	**0.3960**	**1.6200e-003**	**0.0755**	**4.0100e-003**	**0.0795**	**0.0207**	**3.8200e-003**	**0.0245**		**168.6887**	**168.6887**	**0.0101**		**168.9421**

3.8 Landscaping & Field Lighting - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5789	17.4216	6.7126	0.0133		0.8474	0.8474		0.7796	0.7796		1,341.0686	1,341.0686	0.4175		1,351.5059
Total	**1.5789**	**17.4216**	**6.7126**	**0.0133**		**0.8474**	**0.8474**		**0.7796**	**0.7796**		**1,341.0686**	**1,341.0686**	**0.4175**		**1,351.5059**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0336	0.8599	0.2578	1.8000e-003	0.0448	6.1400e-003	0.0510	0.0129	5.8800e-003	0.0188		191.9049	191.9049	0.0139		192.2511
Worker	0.1101	0.0831	0.8951	2.1400e-003	0.2012	1.7900e-003	0.2030	0.0534	1.6500e-003	0.0550		212.5037	212.5037	8.0000e-003		212.7036
Total	**0.1436**	**0.9430**	**1.1529**	**3.9400e-003**	**0.2460**	**7.9300e-003**	**0.2539**	**0.0663**	**7.5300e-003**	**0.0738**		**404.4086**	**404.4086**	**0.0219**		**404.9547**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1634	0.7082	6.3457	0.0133		0.0218	0.0218		0.0218	0.0218	0.0000	1,341.0686	1,341.0686	0.4175		1,351.5059
Total	**0.1634**	**0.7082**	**6.3457**	**0.0133**		**0.0218**	**0.0218**		**0.0218**	**0.0218**	**0.0000**	**1,341.0686**	**1,341.0686**	**0.4175**		**1,351.5059**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0336	0.8599	0.2578	1.8000e-003	0.0419	6.1400e-003	0.0481	0.0122	5.8800e-003	0.0181		191.9049	191.9049	0.0139		192.2511
Worker	0.1101	0.0831	0.8951	2.1400e-003	0.1855	1.7900e-003	0.1873	0.0495	1.6500e-003	0.0512		212.5037	212.5037	8.0000e-003		212.7036
Total	**0.1436**	**0.9430**	**1.1529**	**3.9400e-003**	**0.2274**	**7.9300e-003**	**0.2353**	**0.0617**	**7.5300e-003**	**0.0692**		**404.4086**	**404.4086**	**0.0219**		**404.9547**

3.9 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718		1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.1470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5709**	**14.5184**	**12.4333**	**0.0189**		**0.8370**	**0.8370**		**0.7718**	**0.7718**		**1,872.5505**	**1,872.5505**	**0.5672**		**1,886.7312**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1223	0.0923	0.9945	2.3700e-003	0.2236	1.9900e-003	0.2256	0.0593	1.8400e-003	0.0611		236.1152	236.1152	8.8900e-003		236.3373
Total	**0.1223**	**0.0923**	**0.9945**	**2.3700e-003**	**0.2236**	**1.9900e-003**	**0.2256**	**0.0593**	**1.8400e-003**	**0.0611**		**236.1152**	**236.1152**	**8.8900e-003**		**236.3373**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3076	1.5032	13.9949	0.0189		0.0510	0.0510		0.0510	0.0510	0.0000	1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.1470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4546**	**1.5032**	**13.9949**	**0.0189**		**0.0510**	**0.0510**		**0.0510**	**0.0510**	**0.0000**	**1,872.5505**	**1,872.5505**	**0.5672**		**1,886.7312**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1223	0.0923	0.9945	2.3700e-003	0.2061	1.9900e-003	0.2081	0.0550	1.8400e-003	0.0568		236.1152	236.1152	8.8900e-003		236.3373
Total	**0.1223**	**0.0923**	**0.9945**	**2.3700e-003**	**0.2061**	**1.9900e-003**	**0.2081**	**0.0550**	**1.8400e-003**	**0.0568**		**236.1152**	**236.1152**	**8.8900e-003**		**236.3373**

3.10 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.7493					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	**1.0480**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.1171**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2600e-003	0.0728	0.0159	1.8000e-004	3.8900e-003	2.8000e-004	4.1600e-003	1.0600e-003	2.7000e-004	1.3300e-003		19.1325	19.1325	1.3900e-003		19.1673
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	0.0245	0.0185	0.1989	4.7000e-004	0.0447	4.0000e-004	0.0451	0.0119	3.7000e-004	0.0122		47.2230	47.2230	1.7800e-003		47.2675
Total	**0.0267**	**0.0913**	**0.2148**	**6.5000e-004**	**0.0486**	**6.8000e-004**	**0.0493**	**0.0129**	**6.4000e-004**	**0.0136**		**66.3556**	**66.3556**	**3.1700e-003**		**66.4348**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7493					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	**1.0480**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.1171**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2600e-003	0.0728	0.0159	1.8000e-004	3.6200e-003	2.8000e-004	3.9000e-003	1.0000e-003	2.7000e-004	1.2700e-003		19.1325	19.1325	1.3900e-003		19.1673
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	0.0245	0.0185	0.1989	4.7000e-004	0.0412	4.0000e-004	0.0416	0.0110	3.7000e-004	0.0114		47.2230	47.2230	1.7800e-003		47.2675
Total	**0.0267**	**0.0913**	**0.2148**	**6.5000e-004**	**0.0448**	**6.8000e-004**	**0.0455**	**0.0120**	**6.4000e-004**	**0.0126**		**66.3556**	**66.3556**	**3.1700e-003**		**66.4348**

Wilson Midle School Operation

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior High School	1.65	1000sqft	0.04	1,650.00	0
Other Asphalt Surfaces	42.15	1000sqft	0.97	42,145.00	0
Other Non-Asphalt Surfaces	123.92	1000sqft	2.84	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2018
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	383.88	**CH4 Intensity (lb/MWhr)**	0.095	**N2O Intensity (lb/MWhr)**	0.012

1.3 User Entered Comments & Non-Default Data

Project Characteristics - **City of Glendale Power Mix from California Department of Energy. Utility Annual Power Content Labels for 2016. 2016 City of Glendale Power Content Label. http://www.energy.ca.gov/pcl/labels/

Land Use - See CalEEMod Assumptions

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - See ClaEEMod Assumtpions

Demolition -

Grading -

Architectural Coating - See CalEEMod Assumptions

Vehicle Trips - See CalEEMod Assumptions

Area Coating - SCAQMD Rule 1113

Energy Use -

Water And Wastewater - See CalEEMod Assumptions

Solid Waste - No additional solid waste

Construction Off-road Equipment Mitigation - See CalEEMod Assumptions

Energy Mitigation -

Water Mitigation -

Fleet Mix - See CalEEMod Assumptions

Construction Phase -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	2,529.00	9,964.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblFleetMix	HHD	0.03	3.9670e-003
tblFleetMix	LDA	0.55	0.67
tblFleetMix	LDT1	0.05	0.06
tblFleetMix	LDT2	0.20	0.24
tblFleetMix	LHD1	0.02	2.5420e-003
tblFleetMix	LHD2	5.9530e-003	8.5500e-004
tblFleetMix	MCY	4.8040e-003	6.4480e-003
tblFleetMix	MDV	0.13	0.01
tblFleetMix	MH	9.4400e-004	0.00

tblFleetMix	MHD	0.02	2.6370e-003
tblFleetMix	OBUS	2.3410e-003	0.00
tblFleetMix	SBUS	6.6700e-004	0.00
tblFleetMix	UBUS	2.5830e-003	0.00
tblLandUse	LandUseSquareFeet	42,150.00	42,145.00
tblLandUse	LandUseSquareFeet	123,920.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.095
tblProjectCharacteristics	CO2IntensityFactor	0	383.88
tblProjectCharacteristics	N2OIntensityFactor	0	0.012
tblSolidWaste	SolidWasteGenerationRate	2.15	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,673.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	7.00	27.00
tblTripsAndVMT	WorkerTripNumber	18.00	70.00
tblTripsAndVMT	WorkerTripNumber	4.00	14.00
tblVehicleTrips	ST_TR	0.00	142.86
tblVehicleTrips	SU_TR	0.00	142.86
tblVehicleTrips	WD_TR	13.78	110.64
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-1-2017**	**3-31-2017**	1.6258	1.6258
2	**4-1-2017**	**6-30-2017**	1.1084	1.1084
3	**7-1-2017**	**9-30-2017**	1.1206	1.1206
4	**10-1-2017**	**12-31-2017**	1.1239	1.1239
5	**1-1-2018**	**3-31-2018**	0.2344	0.2344
		Highest	1.6258	1.6258

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	9.5700e-003	2.0000e-005	2.1700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1600e-003	4.1600e-003	1.0000e-005	0.0000	4.4500e-003
Energy	9.0000e-005	8.4000e-004	7.1000e-004	1.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	2.6166	2.6166	4.4000e-004	7.0000e-005	2.6484
Mobile	0.0778	0.1417	1.1356	2.9200e-003	0.2660	2.4000e-003	0.2684	0.0707	2.2300e-003	0.0729	0.0000	263.9619	263.9619	0.0109	0.0000	264.2338
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0120	0.2464	0.2584	1.0000e-004	3.0000e-005	0.2711
Total	**0.0874**	**0.1425**	**1.1385**	**2.9300e-003**	**0.2660**	**2.4700e-003**	**0.2685**	**0.0707**	**2.3000e-003**	**0.0730**	**0.0120**	**266.8290**	**266.8411**	**0.0114**	**1.0000e-004**	**267.1577**

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	9.5700e-003	2.0000e-005	2.1700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1600e-003	4.1600e-003	1.0000e-005	0.0000	4.4500e-003
Energy	9.0000e-005	8.4000e-004	7.1000e-004	1.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	2.6166	2.6166	4.4000e-004	7.0000e-005	2.6484
Mobile	0.0778	0.1417	1.1356	2.9200e-003	0.2660	2.4000e-003	0.2684	0.0707	2.2300e-003	0.0729	0.0000	263.9619	263.9619	0.0109	0.0000	264.2338
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	9.6300e-003	0.2207	0.2303	9.0000e-005	3.0000e-005	0.2408
Total	**0.0874**	**0.1425**	**1.1385**	**2.9300e-003**	**0.2660**	**2.4700e-003**	**0.2685**	**0.0707**	**2.3000e-003**	**0.0730**	**9.6300e-003**	**266.8033**	**266.8129**	**0.0114**	**1.0000e-004**	**267.1274**

	ROG	**NOx**	**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**	**20.02**	**0.01**	**0.01**	**0.09**	**0.00**	**0.01**

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	0.0778	0.1417	1.1356	2.9200e-003	0.2660	2.4000e-003	0.2684	0.0707	2.2300e-003	0.0729	0.0000	263.9619	263.9619	0.0109	0.0000	264.2338
Unmitigated	0.0778	0.1417	1.1356	2.9200e-003	0.2660	2.4000e-003	0.2684	0.0707	2.2300e-003	0.0729	0.0000	263.9619	263.9619	0.0109	0.0000	264.2338

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior High School	182.56	235.72	235.72	713,388	713,388
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	182.56	235.72	235.72	713,388	713,388

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
Junior High School	16.60	8.40	6.90	72.80	22.20	5.00	63	25	12
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-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
Junior High School	0.672372	0.056599	0.244582	0.010000	0.002542	0.000855	0.002637	0.003967	0.000000	0.000000	0.006448	0.000000	0.000000
Other Asphalt Surfaces	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
Other Non-Asphalt Surfaces	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

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	1.7009	1.7009	4.2000e-004	5.0000e-005	1.7272
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.7009	1.7009	4.2000e-004	5.0000e-005	1.7272
NaturalGas Mitigated	9.0000e-005	8.4000e-004	7.1000e-004	1.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.9157	0.9157	2.0000e-005	2.0000e-005	0.9212
NaturalGas Unmitigated	9.0000e-005	8.4000e-004	7.1000e-004	1.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.9157	0.9157	2.0000e-005	2.0000e-005	0.9212

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					
Junior High School	17160	9.0000e-005	8.4000e-004	7.1000e-004	1.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.9157	0.9157	2.0000e-005	2.0000e-005	0.9212
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**9.0000e-005**	**8.4000e-004**	**7.1000e-004**	**1.0000e-005**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.9157**	**0.9157**	**2.0000e-005**	**2.0000e-005**	**0.9212**

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					
Junior High School	17160	9.0000e-005	8.4000e-004	7.1000e-004	1.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.9157	0.9157	2.0000e-005	2.0000e-005	0.9212
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**9.0000e-005**	**8.4000e-004**	**7.1000e-004**	**1.0000e-005**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.9157**	**0.9157**	**2.0000e-005**	**2.0000e-005**	**0.9212**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior High School	9768	1.7009	4.2000e-004	5.0000e-005	1.7272
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**1.7009**	**4.2000e-004**	**5.0000e-005**	**1.7272**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior High School	9768	1.7009	4.2000e-004	5.0000e-005	1.7272
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**1.7009**	**4.2000e-004**	**5.0000e-005**	**1.7272**

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	9.5700e-003	2.0000e-005	2.1700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1600e-003	4.1600e-003	1.0000e-005	0.0000	4.4500e-003
Unmitigated	9.5700e-003	2.0000e-005	2.1700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1600e-003	4.1600e-003	1.0000e-005	0.0000	4.4500e-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	6.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.6900e-003					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	2.1700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1600e-003	4.1600e-003	1.0000e-005	0.0000	4.4500e-003
Total	**9.5800e-003**	**2.0000e-005**	**2.1700e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**4.1600e-003**	**4.1600e-003**	**1.0000e-005**	**0.0000**	**4.4500e-003**

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	6.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.6900e-003					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	2.1700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1600e-003	4.1600e-003	1.0000e-005	0.0000	4.4500e-003
Total	**9.5800e-003**	**2.0000e-005**	**2.1700e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**4.1600e-003**	**4.1600e-003**	**1.0000e-005**	**0.0000**	**4.4500e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.2303	9.0000e-005	3.0000e-005	0.2408
Unmitigated	0.2584	1.0000e-004	3.0000e-005	0.2711

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior High School	0.0340247 / 0.087492	0.2584	1.0000e-004	3.0000e-005	0.2711
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.2584**	**1.0000e-004**	**3.0000e-005**	**0.2711**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior High School	0.0272197 / 0.082155	0.2303	9.0000e-005	3.0000e-005	0.2408
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.2303**	**9.0000e-005**	**3.0000e-005**	**0.2408**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior High School	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior High School	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

Wilson Midle School Operation

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior High School	1.65	1000sqft	0.04	1,650.00	0
Other Asphalt Surfaces	42.15	1000sqft	0.97	42,145.00	0
Other Non-Asphalt Surfaces	123.92	1000sqft	2.84	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2018
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	383.88	**CH4 Intensity (lb/MWhr)**	0.095	**N2O Intensity (lb/MWhr)**	0.012

1.3 User Entered Comments & Non-Default Data

Project Characteristics - **City of Glendale Power Mix from California Department of Energy. Utility Annual Power Content Labels for 2016. 2016 City of Glendale Power Content Label. http://www.energy.ca.gov/pcl/labels/

Land Use - See CalEEMod Assumptions

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - See ClaEEMod Assumtpions

Demolition -

Grading -

Architectural Coating - See CalEEMod Assumptions

Vehicle Trips - See CalEEMod Assumptions

Area Coating - SCAQMD Rule 1113

Energy Use -

Water And Wastewater - See CalEEMod Assumptions

Solid Waste - No additional solid waste

Construction Off-road Equipment Mitigation - See CalEEMod Assumptions

Energy Mitigation -

Water Mitigation -

Fleet Mix - See CalEEMod Assumptions

Construction Phase -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	2,529.00	9,964.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblFleetMix	HHD	0.03	3.9670e-003
tblFleetMix	LDA	0.55	0.67
tblFleetMix	LDT1	0.05	0.06
tblFleetMix	LDT2	0.20	0.24
tblFleetMix	LHD1	0.02	2.5420e-003
tblFleetMix	LHD2	5.9530e-003	8.5500e-004
tblFleetMix	MCY	4.8040e-003	6.4480e-003
tblFleetMix	MDV	0.13	0.01
tblFleetMix	MH	9.4400e-004	0.00

tblFleetMix	MHD	0.02	2.6370e-003
tblFleetMix	OBUS	2.3410e-003	0.00
tblFleetMix	SBUS	6.6700e-004	0.00
tblFleetMix	UBUS	2.5830e-003	0.00
tblLandUse	LandUseSquareFeet	42,150.00	42,145.00
tblLandUse	LandUseSquareFeet	123,920.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.095
tblProjectCharacteristics	CO2IntensityFactor	0	383.88
tblProjectCharacteristics	N2OIntensityFactor	0	0.012
tblSolidWaste	SolidWasteGenerationRate	2.15	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,673.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	7.00	27.00
tblTripsAndVMT	WorkerTripNumber	18.00	70.00
tblTripsAndVMT	WorkerTripNumber	4.00	14.00
tblVehicleTrips	ST_TR	0.00	142.86
tblVehicleTrips	SU_TR	0.00	142.86
tblVehicleTrips	WD_TR	13.78	110.64
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0530	1.6000e-004	0.0174	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0367	0.0367	1.0000e-004		0.0392
Energy	5.1000e-004	4.6100e-003	3.8700e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		5.5310	5.5310	1.1000e-004	1.0000e-004	5.5639
Mobile	0.5396	0.8452	7.7641	0.0200	1.7771	0.0158	1.7928	0.4713	0.0146	0.4859		1,990.7068	1,990.7068	0.0803		1,992.7136
Total	**0.5930**	**0.8499**	**7.7853**	**0.0200**	**1.7771**	**0.0162**	**1.7932**	**0.4713**	**0.0150**	**0.4864**		**1,996.2745**	**1,996.2745**	**0.0805**	**1.0000e-004**	**1,998.3167**

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	0.0530	1.6000e-004	0.0174	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0367	0.0367	1.0000e-004		0.0392
Energy	5.1000e-004	4.6100e-003	3.8700e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		5.5310	5.5310	1.1000e-004	1.0000e-004	5.5639
Mobile	0.5396	0.8452	7.7641	0.0200	1.7771	0.0158	1.7928	0.4713	0.0146	0.4859		1,990.7068	1,990.7068	0.0803		1,992.7136
Total	**0.5930**	**0.8499**	**7.7853**	**0.0200**	**1.7771**	**0.0162**	**1.7932**	**0.4713**	**0.0150**	**0.4864**		**1,996.2745**	**1,996.2745**	**0.0805**	**1.0000e-004**	**1,998.3167**

	ROG	**NOx**	**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**

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	0.5396	0.8452	7.7641	0.0200	1.7771	0.0158	1.7928	0.4713	0.0146	0.4859		1,990.7068	1,990.7068	0.0803		1,992.7136
Unmitigated	0.5396	0.8452	7.7641	0.0200	1.7771	0.0158	1.7928	0.4713	0.0146	0.4859		1,990.7068	1,990.7068	0.0803		1,992.7136

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior High School	182.56	235.72	235.72	713,388	713,388
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	182.56	235.72	235.72	713,388	713,388

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
Junior High School	16.60	8.40	6.90	72.80	22.20	5.00	63	25	12
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-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
Junior High School	0.672372	0.056599	0.244582	0.010000	0.002542	0.000855	0.002637	0.003967	0.000000	0.000000	0.006448	0.000000	0.000000
Other Asphalt Surfaces	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
Other Non-Asphalt Surfaces	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

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	5.1000e-004	4.6100e-003	3.8700e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		5.5310	5.5310	1.1000e-004	1.0000e-004	5.5639
NaturalGas Unmitigated	5.1000e-004	4.6100e-003	3.8700e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		5.5310	5.5310	1.1000e-004	1.0000e-004	5.5639

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					
Junior High School	47.0137	5.1000e-004	4.6100e-003	3.8700e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		5.5310	5.5310	1.1000e-004	1.0000e-004	5.5639
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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**5.1000e-004**	**4.6100e-003**	**3.8700e-003**	**3.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**		**5.5310**	**5.5310**	**1.1000e-004**	**1.0000e-004**	**5.5639**

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					
Junior High School	0.0470137	5.1000e-004	4.6100e-003	3.8700e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		5.5310	5.5310	1.1000e-004	1.0000e-004	5.5639
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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**5.1000e-004**	**4.6100e-003**	**3.8700e-003**	**3.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**		**5.5310**	**5.5310**	**1.1000e-004**	**1.0000e-004**	**5.5639**

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	0.0530	1.6000e-004	0.0174	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0367	0.0367	1.0000e-004		0.0392
Unmitigated	0.0530	1.6000e-004	0.0174	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0367	0.0367	1.0000e-004		0.0392

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	3.7000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6600e-003	1.6000e-004	0.0174	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0367	0.0367	1.0000e-004		0.0392
Total	**0.0530**	**1.6000e-004**	**0.0174**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0367**	**0.0367**	**1.0000e-004**		**0.0392**

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	3.7000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6600e-003	1.6000e-004	0.0174	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0367	0.0367	1.0000e-004		0.0392
Total	**0.0530**	**1.6000e-004**	**0.0174**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0367**	**0.0367**	**1.0000e-004**		**0.0392**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

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

Wilson Midle School Operation

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior High School	1.65	1000sqft	0.04	1,650.00	0
Other Asphalt Surfaces	42.15	1000sqft	0.97	42,145.00	0
Other Non-Asphalt Surfaces	123.92	1000sqft	2.84	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2018
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	383.88	**CH4 Intensity (lb/MWhr)**	0.095	**N2O Intensity (lb/MWhr)**	0.012

1.3 User Entered Comments & Non-Default Data

Project Characteristics - **City of Glendale Power Mix from California Department of Energy. Utility Annual Power Content Labels for 2016. 2016 City of Glendale Power Content Label. http://www.energy.ca.gov/pcl/labels/

Land Use - See CalEEMod Assumptions

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - See ClaEEMod Assumtpions

Demolition -

Grading -

Architectural Coating - See CalEEMod Assumptions

Vehicle Trips - See CalEEMod Assumptions

Area Coating - SCAQMD Rule 1113

Energy Use -

Water And Wastewater - See CalEEMod Assumptions

Solid Waste - No additional solid waste

Construction Off-road Equipment Mitigation - See CalEEMod Assumptions

Energy Mitigation -

Water Mitigation -

Fleet Mix - See CalEEMod Assumptions

Construction Phase -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	2,529.00	9,964.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblFleetMix	HHD	0.03	3.9670e-003
tblFleetMix	LDA	0.55	0.67
tblFleetMix	LDT1	0.05	0.06
tblFleetMix	LDT2	0.20	0.24
tblFleetMix	LHD1	0.02	2.5420e-003
tblFleetMix	LHD2	5.9530e-003	8.5500e-004
tblFleetMix	MCY	4.8040e-003	6.4480e-003
tblFleetMix	MDV	0.13	0.01
tblFleetMix	MH	9.4400e-004	0.00

tblFleetMix	MHD	0.02	2.6370e-003
tblFleetMix	OBUS	2.3410e-003	0.00
tblFleetMix	SBUS	6.6700e-004	0.00
tblFleetMix	UBUS	2.5830e-003	0.00
tblLandUse	LandUseSquareFeet	42,150.00	42,145.00
tblLandUse	LandUseSquareFeet	123,920.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.095
tblProjectCharacteristics	CO2IntensityFactor	0	383.88
tblProjectCharacteristics	N2OIntensityFactor	0	0.012
tblSolidWaste	SolidWasteGenerationRate	2.15	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,673.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	7.00	27.00
tblTripsAndVMT	WorkerTripNumber	18.00	70.00
tblTripsAndVMT	WorkerTripNumber	4.00	14.00
tblVehicleTrips	ST_TR	0.00	142.86
tblVehicleTrips	SU_TR	0.00	142.86
tblVehicleTrips	WD_TR	13.78	110.64
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0530	1.6000e-004	0.0174	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0367	0.0367	1.0000e-004		0.0392
Energy	5.1000e-004	4.6100e-003	3.8700e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		5.5310	5.5310	1.1000e-004	1.0000e-004	5.5639
Mobile	0.5228	0.9079	7.3005	0.0188	1.7771	0.0158	1.7928	0.4713	0.0146	0.4860		1,877.0975	1,877.0975	0.0780		1,879.0469
Total	**0.5763**	**0.9127**	**7.3217**	**0.0189**	**1.7771**	**0.0162**	**1.7932**	**0.4713**	**0.0150**	**0.4864**		**1,882.6653**	**1,882.6653**	**0.0782**	**1.0000e-004**	**1,884.6500**

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	0.0530	1.6000e-004	0.0174	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0367	0.0367	1.0000e-004		0.0392
Energy	5.1000e-004	4.6100e-003	3.8700e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		5.5310	5.5310	1.1000e-004	1.0000e-004	5.5639
Mobile	0.5228	0.9079	7.3005	0.0188	1.7771	0.0158	1.7928	0.4713	0.0146	0.4860		1,877.0975	1,877.0975	0.0780		1,879.0469
Total	**0.5763**	**0.9127**	**7.3217**	**0.0189**	**1.7771**	**0.0162**	**1.7932**	**0.4713**	**0.0150**	**0.4864**		**1,882.6653**	**1,882.6653**	**0.0782**	**1.0000e-004**	**1,884.6500**

	ROG	**NOx**	**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**

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	0.5228	0.9079	7.3005	0.0188	1.7771	0.0158	1.7928	0.4713	0.0146	0.4860		1,877.0975	1,877.0975	0.0780		1,879.0469
Unmitigated	0.5228	0.9079	7.3005	0.0188	1.7771	0.0158	1.7928	0.4713	0.0146	0.4860		1,877.0975	1,877.0975	0.0780		1,879.0469

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior High School	182.56	235.72	235.72	713,388	713,388
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	182.56	235.72	235.72	713,388	713,388

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
Junior High School	16.60	8.40	6.90	72.80	22.20	5.00	63	25	12
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-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
Junior High School	0.672372	0.056599	0.244582	0.010000	0.002542	0.000855	0.002637	0.003967	0.000000	0.000000	0.006448	0.000000	0.000000
Other Asphalt Surfaces	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
Other Non-Asphalt Surfaces	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

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	5.1000e-004	4.6100e-003	3.8700e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		5.5310	5.5310	1.1000e-004	1.0000e-004	5.5639
NaturalGas Unmitigated	5.1000e-004	4.6100e-003	3.8700e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		5.5310	5.5310	1.1000e-004	1.0000e-004	5.5639

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					
Junior High School	47.0137	5.1000e-004	4.6100e-003	3.8700e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		5.5310	5.5310	1.1000e-004	1.0000e-004	5.5639
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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**5.1000e-004**	**4.6100e-003**	**3.8700e-003**	**3.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**		**5.5310**	**5.5310**	**1.1000e-004**	**1.0000e-004**	**5.5639**

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					
Junior High School	0.0470137	5.1000e-004	4.6100e-003	3.8700e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		5.5310	5.5310	1.1000e-004	1.0000e-004	5.5639
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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**5.1000e-004**	**4.6100e-003**	**3.8700e-003**	**3.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**		**5.5310**	**5.5310**	**1.1000e-004**	**1.0000e-004**	**5.5639**

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	0.0530	1.6000e-004	0.0174	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0367	0.0367	1.0000e-004		0.0392
Unmitigated	0.0530	1.6000e-004	0.0174	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0367	0.0367	1.0000e-004		0.0392

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	3.7000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6600e-003	1.6000e-004	0.0174	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0367	0.0367	1.0000e-004		0.0392
Total	**0.0530**	**1.6000e-004**	**0.0174**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0367**	**0.0367**	**1.0000e-004**		**0.0392**

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	3.7000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6600e-003	1.6000e-004	0.0174	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0367	0.0367	1.0000e-004		0.0392
Total	**0.0530**	**1.6000e-004**	**0.0174**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0367**	**0.0367**	**1.0000e-004**		**0.0392**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

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