

ILLINGWORTH & RODKIN, INC.
Acoustics • Air Quality
1 Willowbrook Court, Suite 120
Petaluma, California 94954

Tel: 707-794-0400
www.illingworthrodkin.com

Fax: 707-794-0405
illro@illingworthrodkin.com

MEMO

Date: November 6, 2017

To: **Jodi Starbird**
David J Powers & Associates

From: James Reyff
Illingworth & Rodkin, Inc.
1 Willowbrook Court, Suite 120
Petaluma, CA 94954

SUBJECT: **237 Industrial Center Construction Air Pollutant Emissions**
Job#16-222

There are two development options associated with the 237 Industrial Project. The air quality study prepared by Illingworth & Rodkin, Inc. for the 237 Industrial Center, dated March 22, 2016, predicted construction emissions associated with Option 1 and considered those to be a worst-case scenario since construction of the entire site would occur over a relatively short time period. The construction schedule and equipment usage assumptions for that option were provided and incorporated into the CalEEMod modeling. The modeled construction emissions were reported in terms of total tons emitted over the construction period and the average daily emissions based on the total emissions divided by the number of work days.

There is concern that Option 2 could have higher and possibly significant construction emissions because that option that constructs a data center would include the import of 124,000 cubic yards of fill material. This would include a large number of truck trips. To address this concern, the CalEEMod model was used to compute total and average daily construction emissions for both components of Option 2 (Data Center and subsequent potential Light-Industrial development). The CalEEMod default construction assumptions (i.e., schedule durations, equipment usage and worker/vendor vehicle travel) were used. In addition, truck trips were added to account for the hauling of the 124,000 cubic yards of fill material and additional truck trips associated with concrete and asphalt deliveries.

The import of fill material is based on the input of 124,000 cubic yards, where CalEEMod assumes 16 cubic yards per load, two trips per load and a distance of 20 miles per trip. Cement and asphalt deliveries are likely an overestimate, because CalEEMod's prediction of vendor trips likely includes these trips. However, they were added. The number of cement and asphalt trips were added in proportion to those estimated for Option 1¹. Construction of the Data Center under Option 2 was

¹ Option 1 assumed 6,200 cement trips and 1,500 asphalt trips for a 1,200,000-square foot development using vendor trip distances of 7.3 miles. These values were adjusted to the Option 2 scenarios based on the difference in square footage.

assumed to begin in 2018, where the subsequent development of the light-industrial uses would occur no earlier than 2025. In essence, these would be two separate construction projects. Revised Table 3.2-7 reports these emissions.

Revised Table 3.2-7: Average Daily Construction Emissions from the Project				
Description	ROG	NO_x	PM₁₀	PM_{2.5}
Option 1 Emissions (tons) 2018	0.65	6.58	0.13	0.12
Option 1 Emissions (tons) 2019	6.59	0.66	0.02	0.02
<i>Option 1 Average Daily Emissions (pounds per day) - Assuming 400 workdays</i>	36	36	1	1
Data Center Option 2 Emissions (tons) 2018	0.63	7.92	0.26	0.24
Data Center Option 2 Emissions (tons) 2019	0.46	4.29	0.18	0.17
Data Center Option 2 Emissions (tons) 2020	2.34	0.52	0.02	0.02
<i>Option 2 Data Center Average Daily Emissions (pounds per day) - Assuming 605 workdays</i>	11	42	2	1
Light Industrial Option 2 Emissions (tons) 2025	0.27	2.58	0.09	0.09
Light Industrial Option 2 Emissions (tons) 2026	0.42	3.91	0.08	0.07
Light Industrial Option 2 Emissions (tons) 2027	0.41	3.87	0.07	0.07
Light Industrial Option 2 Emissions (tons) 2028	4.24	2.91	0.06	0.06
<i>Option 2 Light Industrial Average Daily Emissions (pounds per day) - Assuming 1,005 workdays</i>	11	26	1	1
<i>BAAQMD Thresholds (pounds per day)</i>	54	54	82	54

The revised table does show higher NO_x emissions for the construction period associated with Option 2 Data Center construction. There are several reasons for these higher emissions:

1. The inclusion of the estimated 15,500 truck trips included to import the necessary fill material;
2. A much longer site preparation period for the Data Center of 155 days based on model defaults, compared to an estimate of 65 days for the entire site under Option 1; and
3. Use of the default construction assumptions that can lead to higher building period construction emissions. The CalEEMod defaults assume use of a crane and diesel generator for 740 days, whereas the estimated construction assumptions for Option 1 show less crane use and electricity access from line power rather than diesel generators.

In conclusion, the project, with either development of Option 1 or Option 2, would not cause air pollutant emissions during construction that exceed significance thresholds for emissions. The impacts would be less than significant if the identified mitigation measures to reduce construction dust are implemented.

237 Industrial - Option 1 - Santa Clara County, Annual

237 Industrial - Option 1
Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1,200.00	1000sqft	66.50	1,200,000.00	0
Parking Lot	2,621.00	Space	0.00	1,048,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4	Operational Year	2020		
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - Using PG&E 2020 Emission rate
- Land Use - all acreage assigned to light industrial use
- Construction Phase - Based on provided schedule and equipment list
- Off-road Equipment - Based on provided equipment list
- Off-road Equipment - Based on provided construction list
- Off-road Equipment - Based on provided equipment list
- Off-road Equipment - Based on provided equipment list - used Dozer as compactor

Off-road Equipment - Based on provided equipment list

Off-road Equipment - Based on provided equipment list - added Rollers and Pavers (default)

Off-road Equipment - Based on provided equipment list

Off-road Equipment - Based on provided equipment list

Trips and VMT - Added 3100 RT cement and 750 RT asphalt at vendor distances

Demolition - Based on provided equipment list - very little demolition

Grading - Based on acreage graded default with default equipment from CalEEMod

Vehicle Trips - Used default, which is same as

Road Dust - calculated Santa Clara County silt loading per CARB data

Energy Use - default values

Water And Wastewater - no septic

Stationary Sources - Emergency Generators and Fire Pumps - 50 kW generator = 67 hp - tested <50hrs/year

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	75.00	160.00
tblConstructionPhase	NumDays	1,110.00	160.00
tblConstructionPhase	NumDays	70.00	5.00
tblConstructionPhase	NumDays	110.00	20.00
tblConstructionPhase	NumDays	75.00	20.00
tblGrading	AcresOfGrading	0.00	275.00
tblGrading	AcresOfGrading	40.00	0.00
tblGrading	MaterialExported	0.00	1,200.00
tblGrading	MaterialImported	0.00	500.00
tblLandUse	LotAcreage	27.55	66.50
tblLandUse	LotAcreage	23.59	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	2.00
tblOffRoadEquipment	UsageHours	8.00	5.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2018	2020
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	67.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	7.30
tblTripsAndVMT	HaulingTripLength	20.00	7.30
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	213.00	212.00
tblTripsAndVMT	HaulingTripNumber	0.00	6,200.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,500.00
tblTripsAndVMT	WorkerTripNumber	5.00	15.00
tblWater	AerobicPercent	87.46	97.00
tblWater	AerobicPercent	87.46	97.00

tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	3.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	3.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.6508	6.5846	4.5399	0.0171	1.0661	0.1319	1.1981	0.2992	0.1239	0.4231	0.0000	1,597.3162	1,597.3162	0.1128	0.0000	1,600.1365
2019	6.5850	0.6580	0.9284	2.4100e-003	0.1603	0.0228	0.1831	0.0425	0.0212	0.0637	0.0000	219.7935	219.7935	0.0216	0.0000	220.3326
Maximum	6.5850	6.5846	4.5399	0.0171	1.0661	0.1319	1.1981	0.2992	0.1239	0.4231	0.0000	1,597.3162	1,597.3162	0.1128	0.0000	1,600.1365

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2018	3-31-2018	1.2406	1.2406
2	4-1-2018	6-30-2018	1.0931	1.0931
3	7-1-2018	9-30-2018	2.4285	2.4285
4	10-1-2018	12-31-2018	2.4846	2.4846
5	1-1-2019	3-31-2019	2.1479	2.1479
6	4-1-2019	6-30-2019	2.7722	2.7722
7	7-1-2019	9-30-2019	2.2848	2.2848

		Highest	2.7722	2.7722
--	--	---------	--------	--------

2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.4053	3.3000e-004	0.0353	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	0.0683	0.0683	1.8000e-004	0.0000	0.0729
Energy	0.1713	1.5577	1.3084	9.3500e-003		0.1184	0.1184		0.1184	0.1184	0.0000	3,146.1460	3,146.1460	0.1776	0.0611	3,168.7916
Mobile	1.8733	8.2431	23.9447	0.0779	6.8582	0.0774	6.9356	1.8360	0.0726	1.9086	0.0000	7,118.5253	7,118.5253	0.2470	0.0000	7,124.7009
Stationary	2.7500e-003	8.9600e-003	9.9700e-003	1.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	1.2757	1.2757	1.8000e-004	0.0000	1.2801
Waste						0.0000	0.0000		0.0000	0.0000	302.0506	0.0000	302.0506	17.8507	0.0000	748.3175
Water						0.0000	0.0000		0.0000	0.0000	98.1799	197.5169	295.6968	3.3830	0.2176	445.1147
Total	7.4527	9.8100	25.2984	0.0872	6.8582	0.1963	7.0546	1.8360	0.1915	2.0275	400.2305	10,463.5322	10,863.7626	21.6586	0.2787	11,488.2777

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	1/5/2018	5	5	1 week duration
2	Site Preparation	Site Preparation	1/6/2018	3/2/2018	5	40	8 weeks
3	Grading	Grading	3/3/2018	3/30/2018	5	20	4 weeks
4	utilities/trenching	Trenching	3/31/2018	5/25/2018	5	40	2 months
5	Exterior Building Construction	Building Construction	5/26/2018	1/4/2019	5	160	4 months
6	Paving	Paving	1/5/2019	2/1/2019	5	20	1 month assumed overlap

7	Interior Building Construction	Architectural Coating	2/2/2019	9/13/2019	5	160	8 months
---	--------------------------------	-----------------------	----------	-----------	---	-----	----------

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 275

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,800,000; Non-Residential Outdoor: 600,000; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Excavators	1	2.00	158	0.38
	Rubber Tired Loaders	1	2.00	203	0.36
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Graders	2	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Loaders	2	8.00	203	0.36
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Loaders	2	8.00	203	0.36
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
utilities/trenching	Rubber Tired Loaders	1	5.00	203	0.36
utilities/trenching	Tractors/Loaders/Backhoes	2	5.00	97	0.37
Exterior Building Construction	Cranes	2	2.00	231	0.29
Exterior Building Construction	Forklifts	2	5.00	89	0.20
Exterior Building Construction	Generator Sets	0	8.00	84	0.74
Exterior Building Construction	Pumps	2	3.00	84	0.74

Exterior Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Exterior Building Construction	Welders	0	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	1	4.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Skid Steer Loaders	2	4.00	65	0.37
Interior Building Construction	Aerial Lifts	4	3.00	63	0.31
Interior Building Construction	Air Compressors	0	6.00	78	0.48
Interior Building Construction	Forklifts	2	4.00	89	0.20
Interior Building Construction	Welders	2	1.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	2	15.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	212.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
utilities/trenching	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Exterior Building Construction	6	944.00	369.00	6,200.00	10.80	7.30	7.30	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	1,500.00	10.80	7.30	7.30	LD_Mix	HDT_Mix	HHDT
Interior Building Construction	8	189.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6400e-003	0.0391	0.0191	3.0000e-005		1.9000e-003	1.9000e-003		1.7500e-003	1.7500e-003	0.0000	3.1292	3.1292	9.7000e-004	0.0000	3.1536
Total	3.6400e-003	0.0391	0.0191	3.0000e-005	1.0000e-005	1.9000e-003	1.9100e-003	0.0000	1.7500e-003	1.7500e-003	0.0000	3.1292	3.1292	9.7000e-004	0.0000	3.1536

3.3 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0486	0.6033	0.2395	6.4000e-004		0.0239	0.0239		0.0220	0.0220	0.0000	58.4798	58.4798	0.0182	0.0000	58.9349
Total	0.0486	0.6033	0.2395	6.4000e-004	0.0000	0.0239	0.0239	0.0000	0.0220	0.0220	0.0000	58.4798	58.4798	0.0182	0.0000	58.9349

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	1.2100e-003	9.3000e-004	9.4600e-003	2.0000e-005	2.3800e-003	2.0000e-005	2.4000e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	2.1708	2.1708	7.0000e-005	0.0000	2.1724
Total	1.2100e-003	9.3000e-004	9.4600e-003	2.0000e-005	2.3800e-003	2.0000e-005	2.4000e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	2.1708	2.1708	7.0000e-005	0.0000	2.1724

3.4 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					0.2664	0.0000	0.2664	0.0820	0.0000	0.0820	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0430	0.4722	0.2345	4.6000e-004		0.0226	0.0226		0.0208	0.0208	0.0000	42.1187	42.1187	0.0131	0.0000	42.4465
Total	0.0430	0.4722	0.2345	4.6000e-004	0.2664	0.0226	0.2889	0.0820	0.0208	0.1027	0.0000	42.1187	42.1187	0.0131	0.0000	42.4465

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0100e-003	0.0348	6.7600e-003	9.0000e-005	1.8000e-003	1.4000e-004	1.9400e-003	4.9000e-004	1.3000e-004	6.3000e-004	0.0000	8.2499	8.2499	3.9000e-004	0.0000	8.2597
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.1000e-004	6.2000e-004	6.3100e-003	2.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.4472	1.4472	4.0000e-005	0.0000	1.4483
Total	1.8200e-003	0.0354	0.0131	1.1000e-004	3.3900e-003	1.5000e-004	3.5400e-003	9.1000e-004	1.4000e-004	1.0600e-003	0.0000	9.6971	9.6971	4.3000e-004	0.0000	9.7079

3.5 utilities/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	0.0120	0.1323	0.0801	1.6000e-004		6.9100e-003	6.9100e-003		6.3600e-003	6.3600e-003	0.0000	14.2248	14.2248	4.4300e-003	0.0000	14.3355
Total	0.0120	0.1323	0.0801	1.6000e-004		6.9100e-003	6.9100e-003		6.3600e-003	6.3600e-003	0.0000	14.2248	14.2248	4.4300e-003	0.0000	14.3355

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	4.9000e-004	5.0500e-003	1.0000e-005	1.2700e-003	1.0000e-005	1.2800e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1578	1.1578	3.0000e-005	0.0000	1.1586
Total	6.4000e-004	4.9000e-004	5.0500e-003	1.0000e-005	1.2700e-003	1.0000e-005	1.2800e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1578	1.1578	3.0000e-005	0.0000	1.1586

3.6 Exterior Building Construction - 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	0.0707	0.6638	0.4391	7.6000e-004		0.0399	0.0399		0.0380	0.0380	0.0000	67.2089	67.2089	0.0131	0.0000	67.5372
Total	0.0707	0.6638	0.4391	7.6000e-004		0.0399	0.0399		0.0380	0.0380	0.0000	67.2089	67.2089	0.0131	0.0000	67.5372

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0149	0.5512	0.1033	1.0800e-003	0.0191	1.6200e-003	0.0207	5.2400e-003	1.5500e-003	6.7900e-003	0.0000	104.1748	104.1748	6.9000e-003	0.0000	104.3473
Vendor	0.1576	3.8578	1.0735	7.9600e-003	0.1893	0.0310	0.2203	0.0547	0.0296	0.0844	0.0000	761.8073	761.8073	0.0395	0.0000	762.7953
Worker	0.2964	0.2277	2.3220	5.9000e-003	0.5840	3.9300e-003	0.5879	0.1553	3.6200e-003	0.1589	0.0000	532.7978	532.7978	0.0160	0.0000	533.1978
Total	0.4690	4.6367	3.4988	0.0149	0.7924	0.0365	0.8289	0.2153	0.0348	0.2501	0.0000	1,398.7799	1,398.7799	0.0624	0.0000	1,400.3403

3.6 Exterior Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.6100e-003	0.0153	0.0110	2.0000e-005		8.9000e-004	8.9000e-004		8.5000e-004	8.5000e-004	0.0000	1.7092	1.7092	3.3000e-004	0.0000	1.7174

Total	1.6100e-003	0.0153	0.0110	2.0000e-005		8.9000e-004	8.9000e-004		8.5000e-004	8.5000e-004	0.0000	1.7092	1.7092	3.3000e-004	0.0000	1.7174
-------	-------------	--------	--------	-------------	--	-------------	-------------	--	-------------	-------------	--------	--------	--------	-------------	--------	--------

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.6000e-004	0.0136	2.5100e-003	3.0000e-005	0.0145	4.0000e-005	0.0145	3.5700e-003	4.0000e-005	3.6100e-003	0.0000	2.6515	2.6515	1.7000e-004	0.0000	2.6558
Vendor	3.6200e-003	0.0932	0.0250	2.0000e-004	4.8500e-003	6.7000e-004	5.5200e-003	1.4000e-003	6.4000e-004	2.0400e-003	0.0000	19.4132	19.4132	9.6000e-004	0.0000	19.4373
Worker	6.8600e-003	5.1100e-003	0.0527	1.5000e-004	0.0150	1.0000e-004	0.0151	3.9800e-003	9.0000e-005	4.0700e-003	0.0000	13.2553	13.2553	3.6000e-004	0.0000	13.2644
Total	0.0108	0.1119	0.0803	3.8000e-004	0.0343	8.1000e-004	0.0351	8.9500e-003	7.7000e-004	9.7200e-003	0.0000	35.3200	35.3200	1.4900e-003	0.0000	35.3574

3.7 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0122	0.1299	0.1227	1.9000e-004		7.0800e-003	7.0800e-003		6.5200e-003	6.5200e-003	0.0000	16.8431	16.8431	5.3300e-003	0.0000	16.9764
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0122	0.1299	0.1227	1.9000e-004		7.0800e-003	7.0800e-003		6.5200e-003	6.5200e-003	0.0000	16.8431	16.8431	5.3300e-003	0.0000	16.9764

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.4800e-003	0.1311	0.0243	2.7000e-004	4.6500e-003	3.7000e-004	5.0200e-003	1.2800e-003	3.5000e-004	1.6300e-003	0.0000	25.6594	25.6594	1.6600e-003	0.0000	25.7008
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	4.9000e-004	5.0300e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2638	1.2638	3.0000e-005	0.0000	1.2646
Total	4.1300e-003	0.1316	0.0293	2.8000e-004	6.0800e-003	3.8000e-004	6.4600e-003	1.6600e-003	3.6000e-004	2.0200e-003	0.0000	26.9231	26.9231	1.6900e-003	0.0000	26.9654

3.8 Interior Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.4759					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.2285	0.2628	3.7000e-004		0.0129	0.0129		0.0120	0.0120	0.0000	32.8430	32.8430	9.8300e-003	0.0000	33.0888
Total	6.5013	0.2285	0.2628	3.7000e-004		0.0129	0.0129		0.0120	0.0120	0.0000	32.8430	32.8430	9.8300e-003	0.0000	33.0888

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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
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	0.0549	0.0409	0.4224	1.1700e-003	0.1199	7.9000e-004	0.1207	0.0319	7.3000e-004	0.0326	0.0000	106.1550	106.1550	2.8900e-003	0.0000	106.2273
Total	0.0549	0.0409	0.4224	1.1700e-003	0.1199	7.9000e-004	0.1207	0.0319	7.3000e-004	0.0326	0.0000	106.1550	106.1550	2.8900e-003	0.0000	106.2273

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Mitigated	1.8733	8.2431	23.9447	0.0779	6.8582	0.0774	6.9356	1.8360	0.0726	1.9086	0.0000	7,118.5253	7,118.5253	0.2470	0.0000	7,124.7009
Unmitigated	1.8733	8.2431	23.9447	0.0779	6.8582	0.0774	6.9356	1.8360	0.0726	1.9086	0.0000	7,118.5253	7,118.5253	0.2470	0.0000	7,124.7009

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	8,364.00	1,584.00	816.00	18,442,969	18,442,969
Parking Lot	0.00	0.00	0.00		
Total	8,364.00	1,584.00	816.00	18,442,969	18,442,969

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by

General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.604810	0.038204	0.185149	0.108513	0.015498	0.004981	0.012268	0.020156	0.002083	0.001571	0.005363	0.000620	0.000785
Parking Lot	0.604810	0.038204	0.185149	0.108513	0.015498	0.004981	0.012268	0.020156	0.002083	0.001571	0.005363	0.000620	0.000785

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	1,450.4576	1,450.4576	0.1451	0.0300	1,463.0266
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,450.4576	1,450.4576	0.1451	0.0300	1,463.0266
NaturalGas Mitigated	0.1713	1.5577	1.3084	9.3500e-003		0.1184	0.1184		0.1184	0.1184	0.0000	1,695.6884	1,695.6884	0.0325	0.0311	1,705.7650
NaturalGas Unmitigated	0.1713	1.5577	1.3084	9.3500e-003		0.1184	0.1184		0.1184	0.1184	0.0000	1,695.6884	1,695.6884	0.0325	0.0311	1,705.7650

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
----------------	-----	-----	----	-----	---------------	--------------	------------	----------------	---------------	-------------	----------	-----------	-----------	-----	-----	------

Mitigated	5.4053	3.3000e-004	0.0353	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	0.0683	0.0683	1.8000e-004	0.0000	0.0729
Unmitigated	5.4053	3.3000e-004	0.0353	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	0.0683	0.0683	1.8000e-004	0.0000	0.0729

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6476					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.7544					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.3200e-003	3.3000e-004	0.0353	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	0.0683	0.0683	1.8000e-004	0.0000	0.0729
Total	5.4053	3.3000e-004	0.0353	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	0.0683	0.0683	1.8000e-004	0.0000	0.0729

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	295.6968	3.3830	0.2176	445.1147

Unmitigated	295.6968	3.3830	0.2176	445.1147
-------------	----------	--------	--------	----------

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	277.5 / 0	295.6968	3.3830	0.2176	445.1147
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		295.6968	3.3830	0.2176	445.1147

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	302.0506	17.8507	0.0000	748.3175
Unmitigated	302.0506	17.8507	0.0000	748.3175

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	1488	302.0506	17.8507	0.0000	748.3175
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		302.0506	17.8507	0.0000	748.3175

9.0 Operational Offroad

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	50	67	0.73	Diesel

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (50 - 75 HP)	2.7500e-003	8.9600e-003	9.9700e-003	1.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	1.2757	1.2757	1.8000e-004	0.0000	1.2801

Total	2.7500e-003	8.9600e-003	9.9700e-003	1.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	1.2757	1.2757	1.8000e-004	0.0000	1.2801
-------	-------------	-------------	-------------	-------------	--	-------------	-------------	--	-------------	-------------	--------	--------	--------	-------------	--------	--------

237 Industrial - Option 2 Data Center - Santa Clara County, Annual

**237 Industrial - Option 2 Data Center
Santa Clara County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	436.88	1000sqft	26.50	436,880.00	0
Parking Lot	151.00	Space	0.00	60,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4	Operational Year		2020	
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - Using PG&E 2020 Emission rate
- Land Use - Data center represented by "Industrial Park" Substation use not available. Parking = 151 for data center
- Construction Phase - No construction plans available
- Trips and VMT - proportionally similar concrete and asphalt as Option 1 1,200,000 reduced to 437,000 cement = 2,258 and asphalt = 546 trips
- Demolition -
- Grading - Soil import
- Vehicle Trips - Used provided trip rates
- Road Dust - calculated Santa Clara County silt loading per CARB data
- Energy Use - Based on 50 MW peak demand and scaled by 85% for annual conditions = 372,300 MW/year or 852 kwhr/sf/year
- Water And Wastewater - based on peak day of 1.47 mgd - assumed to be outdoor since treatment not required. 85% scaled for annual
- Construction Off-road Equipment Mitigation -
- Stationary Sources - Emergency Generators and Fire Pumps - 50 kw standby generator

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblGrading	MaterialExported	0.00	124,000.00
tblLandUse	LotAcreage	10.03	26.50
tblLandUse	LotAcreage	1.36	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2018	2020
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	67.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	1.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	7.30
tblTripsAndVMT	HaulingTripLength	20.00	7.30
tblTripsAndVMT	HaulingTripNumber	0.00	2,258.00
tblTripsAndVMT	HaulingTripNumber	0.00	546.00
tblVehicleTrips	ST_TR	2.49	0.99
tblVehicleTrips	SU_TR	0.73	0.99
tblVehicleTrips	WD_TR	6.83	0.99

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	0.6252	7.9243	4.1445	0.0143	0.7092	0.2573	0.9665	0.2703	0.2402	0.5104	0.0000	1,341.9621	1,341.9621	0.1561	0.0000	1,345.8648
2019	0.4628	4.2929	3.3862	8.8100e-003	0.2930	0.1798	0.4728	0.0796	0.1692	0.2487	0.0000	802.7046	802.7046	0.0954	0.0000	805.0896
2020	2.3436	0.5172	0.4826	1.0600e-003	0.0292	0.0229	0.0521	7.7500e-003	0.0214	0.0292	0.0000	94.9388	94.9388	0.0170	0.0000	95.3644
Maximum	2.3436	7.9243	4.1445	0.0143	0.7092	0.2573	0.9665	0.2703	0.2402	0.5104	0.0000	1,341.9621	1,341.9621	0.1561	0.0000	1,345.8648

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	0.6252	7.9243	4.1445	0.0143	0.9692	0.2573	1.2264	0.3341	0.2402	0.5742	0.0000	1,341.9617	1,341.9617	0.1561	0.0000	1,345.8643
2019	0.4628	4.2929	3.3862	8.8100e-003	0.5348	0.1798	0.7146	0.1389	0.1692	0.3081	0.0000	802.7043	802.7043	0.0954	0.0000	805.0893
2020	2.3436	0.5172	0.4826	1.0600e-003	0.0543	0.0229	0.0772	0.0139	0.0214	0.0353	0.0000	94.9387	94.9387	0.0170	0.0000	95.3643
Maximum	2.3436	7.9243	4.1445	0.0143	0.9692	0.2573	1.2264	0.3341	0.2402	0.5742	0.0000	1,341.9617	1,341.9617	0.1561	0.0000	1,345.8643

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	-51.09	0.00	-35.33	-36.17	0.00	-16.41	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2018	3-31-2018	2.5576	2.5576
2	4-1-2018	6-30-2018	3.3245	3.3245
3	7-1-2018	9-30-2018	1.3061	1.3061
4	10-1-2018	12-31-2018	1.3184	1.3184
5	1-1-2019	3-31-2019	1.1760	1.1760
6	4-1-2019	6-30-2019	1.1784	1.1784
7	7-1-2019	9-30-2019	1.1913	1.1913
8	10-1-2019	12-31-2019	1.2021	1.2021
9	1-1-2020	3-31-2020	1.7071	1.7071
10	4-1-2020	6-30-2020	1.1405	1.1405
		Highest	3.3245	3.3245

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	Energy	Mobile	Stationary	Waste	Water	Total	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O
Area	1.9397	5.0000e-005	5.4400e-003	0.0000			2.0000e-005	2.0000e-005			2.0000e-005	2.0000e-005					0.0000	0.0105	0.0105	3.0000e-005	0.0000	0.0112
Energy	0.0388	0.3523	0.2959	2.1100e-003			0.0268	0.0268			0.0268	0.0268					0.0000	1,437.5666	1,437.5666	0.1128	0.0288	1,448.9796
Mobile	0.1231	0.5278	1.5104	4.8200e-003	0.7816		4.8100e-003	0.7864	0.2012		4.5100e-003	0.2057					0.0000	440.3556	440.3556	0.0156	0.0000	440.7453
Stationary	2.7500e-003	8.9600e-003	9.9700e-003	1.0000e-005			4.0000e-004	4.0000e-004			4.0000e-004	4.0000e-004					0.0000	1.2757	1.2757	1.8000e-004	0.0000	1.2801
Waste							0.0000	0.0000			0.0000	0.0000					109.9663	0.0000	109.9663	6.4988	0.0000	272.4368
Water							0.0000	0.0000			0.0000	0.0000					32.0517	71.9093	103.9610	3.2992	0.0792	210.0485
Total	2.1044	0.8891	1.8217	6.9400e-003	0.7816	0.0320	0.8136	0.2012	0.0317	0.2329	142.0180	1,951.1177	2,093.1356	9.9266	0.1081	2,373.5016						

Mitigated Operational

Category	tons/yr											MT/yr										
	Area	Energy	Mobile	Stationary	Waste	Water	Total	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O
Area	1.9397	5.0000e-005	5.4400e-003	0.0000			2.0000e-005	2.0000e-005			2.0000e-005	2.0000e-005					0.0000	0.0105	0.0105	3.0000e-005	0.0000	0.0112
Energy	0.0388	0.3523	0.2959	2.1100e-003			0.0268	0.0268			0.0268	0.0268					0.0000	1,437.5666	1,437.5666	0.1128	0.0288	1,448.9796
Mobile	0.1231	0.5278	1.5104	4.8200e-003	0.7816		4.8100e-003	0.7864	0.2012		4.5100e-003	0.2057					0.0000	440.3556	440.3556	0.0156	0.0000	440.7453
Stationary	2.7500e-003	8.9600e-003	9.9700e-003	1.0000e-005			4.0000e-004	4.0000e-004			4.0000e-004	4.0000e-004					0.0000	1.2757	1.2757	1.8000e-004	0.0000	1.2801
Waste							0.0000	0.0000			0.0000	0.0000					109.9663	0.0000	109.9663	6.4988	0.0000	272.4368
Water							0.0000	0.0000			0.0000	0.0000					64.1034	143.8186	207.9220	6.5984	0.1584	420.0971
Total	2.1044	0.8891	1.8217	6.9400e-003	0.7816	0.0320	0.8136	0.2012	0.0317	0.2329	174.0697	2,023.0270	2,197.0966	13.2258	0.1873	2,583.5501						

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.57	-3.69	-4.97	-33.24	-73.31	-8.85

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	2/9/2018	5	30	
2	Site Preparation	Site Preparation	2/10/2018	3/9/2018	5	20	
3	Grading	Grading	3/10/2018	5/11/2018	5	45	
4	Exterior Building Construction	Building Construction	5/12/2018	1/17/2020	5	440	
5	Paving	Paving	1/18/2020	3/6/2020	5	35	
6	Interior Building Construction	Architectural Coating	3/7/2020	4/24/2020	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 655,320; Non-Residential Outdoor: 218,440; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
------------	------------------------	--------	-------------	-------------	-------------

Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	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	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Exterior Building Construction	Cranes	1	7.00	231	0.29
Exterior Building Construction	Forklifts	3	8.00	89	0.20
Exterior Building Construction	Generator Sets	1	8.00	84	0.74
Exterior Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Exterior Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Interior Building Construction	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	15,500.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Exterior Building Construction	9	209.00	82.00	2,258.00	10.80	7.30	7.30	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	546.00	10.80	7.30	7.30	LD_Mix	HDT_Mix	HHDT
Interior Building Construction	1	42.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0558	0.5748	0.3346	5.8000e-004		0.0291	0.0291		0.0271	0.0271	0.0000	52.6861	52.6861	0.0145	0.0000	53.0490
Total	0.0558	0.5748	0.3346	5.8000e-004	1.0000e-005	0.0291	0.0291	0.0000	0.0271	0.0271	0.0000	52.6861	52.6861	0.0145	0.0000	53.0490

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1000e-004	7.0000e-004	7.1000e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.8000e-003	4.7000e-004	1.0000e-005	4.9000e-004	0.0000	1.6281	1.6281	5.0000e-005	0.0000	1.6293
Total	9.1000e-004	7.0000e-004	7.1000e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.8000e-003	4.7000e-004	1.0000e-005	4.9000e-004	0.0000	1.6281	1.6281	5.0000e-005	0.0000	1.6293

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0558	0.5748	0.3346	5.8000e-004		0.0291	0.0291		0.0271	0.0271	0.0000	52.6861	52.6861	0.0145	0.0000	53.0489
Total	0.0558	0.5748	0.3346	5.8000e-004	1.0000e-005	0.0291	0.0291	0.0000	0.0271	0.0271	0.0000	52.6861	52.6861	0.0145	0.0000	53.0489

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1000e-004	7.0000e-004	7.1000e-003	2.0000e-005	3.3300e-003	1.0000e-005	3.3400e-003	8.5000e-004	1.0000e-005	8.6000e-004	0.0000	1.6281	1.6281	5.0000e-005	0.0000	1.6293
Total	9.1000e-004	7.0000e-004	7.1000e-003	2.0000e-005	3.3300e-003	1.0000e-005	3.3400e-003	8.5000e-004	1.0000e-005	8.6000e-004	0.0000	1.6281	1.6281	5.0000e-005	0.0000	1.6293

3.3 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					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0456	0.4820	0.2248	3.8000e-004		0.0258	0.0258		0.0237	0.0237	0.0000	34.7599	34.7599	0.0108	0.0000	35.0304
Total	0.0456	0.4820	0.2248	3.8000e-004	0.1807	0.0258	0.2064	0.0993	0.0237	0.1230	0.0000	34.7599	34.7599	0.0108	0.0000	35.0304

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	7.2000e-004	5.6000e-004	5.6800e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3025	1.3025	4.0000e-005	0.0000	1.3035
Total	7.2000e-004	5.6000e-004	5.6800e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3025	1.3025	4.0000e-005	0.0000	1.3035

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0456	0.4820	0.2248	3.8000e-004		0.0258	0.0258		0.0237	0.0237	0.0000	34.7599	34.7599	0.0108	0.0000	35.0304
Total	0.0456	0.4820	0.2248	3.8000e-004	0.1807	0.0258	0.2064	0.0993	0.0237	0.1230	0.0000	34.7599	34.7599	0.0108	0.0000	35.0304

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	7.2000e-004	5.6000e-004	5.6800e-003	1.0000e-005	2.6600e-003	1.0000e-005	2.6700e-003	6.8000e-004	1.0000e-005	6.9000e-004	0.0000	1.3025	1.3025	4.0000e-005	0.0000	1.3035
Total	7.2000e-004	5.6000e-004	5.6800e-003	1.0000e-005	2.6600e-003	1.0000e-005	2.6700e-003	6.8000e-004	1.0000e-005	6.9000e-004	0.0000	1.3025	1.3025	4.0000e-005	0.0000	1.3035

3.4 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					0.2022	0.0000	0.2022	0.0820	0.0000	0.0820	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1145	1.3392	0.7895	1.4000e-003		0.0593	0.0593		0.0545	0.0545	0.0000	127.4591	127.4591	0.0397	0.0000	128.4511
Total	0.1145	1.3392	0.7895	1.4000e-003	0.2022	0.0593	0.2614	0.0820	0.0545	0.1365	0.0000	127.4591	127.4591	0.0397	0.0000	128.4511

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0742	2.5407	0.4941	6.2500e-003	0.1314	0.0102	0.1415	0.0361	9.7100e-003	0.0458	0.0000	603.1782	603.1782	0.0285	0.0000	603.8899
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	1.8100e-003	1.3900e-003	0.0142	4.0000e-005	3.5700e-003	2.0000e-005	3.5900e-003	9.5000e-004	2.0000e-005	9.7000e-004	0.0000	3.2562	3.2562	1.0000e-004	0.0000	3.2586
Total	0.0760	2.5421	0.5083	6.2900e-003	0.1349	0.0102	0.1451	0.0371	9.7300e-003	0.0468	0.0000	606.4344	606.4344	0.0286	0.0000	607.1485

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.2022	0.0000	0.2022	0.0820	0.0000	0.0820	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1145	1.3392	0.7895	1.4000e-003		0.0593	0.0593		0.0545	0.0545	0.0000	127.4590	127.4590	0.0397	0.0000	128.4510
Total	0.1145	1.3392	0.7895	1.4000e-003	0.2022	0.0593	0.2614	0.0820	0.0545	0.1365	0.0000	127.4590	127.4590	0.0397	0.0000	128.4510

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0742	2.5407	0.4941	6.2500e-003	0.2297	0.0102	0.2399	0.0603	9.7100e-003	0.0700	0.0000	603.1782	603.1782	0.0285	0.0000	603.8899
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	1.8100e-003	1.3900e-003	0.0142	4.0000e-005	6.6500e-003	2.0000e-005	6.6800e-003	1.7100e-003	2.0000e-005	1.7300e-003	0.0000	3.2562	3.2562	1.0000e-004	0.0000	3.2586
Total	0.0760	2.5421	0.5083	6.2900e-003	0.2364	0.0102	0.2466	0.0620	9.7300e-003	0.0717	0.0000	606.4344	606.4344	0.0286	0.0000	607.1485

3.5 Exterior Building Construction - 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	0.2224	1.9414	1.4592	2.2300e-003		0.1245	0.1245		0.1170	0.1170	0.0000	197.3468	197.3468	0.0484	0.0000	198.5556
Total	0.2224	1.9414	1.4592	2.2300e-003		0.1245	0.1245		0.1170	0.1170	0.0000	197.3468	197.3468	0.0484	0.0000	198.5556

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	2.1000e-003	0.0777	0.0146	1.5000e-004	5.9000e-003	2.3000e-004	6.1300e-003	1.5300e-003	2.2000e-004	1.7400e-003	0.0000	14.6807	14.6807	9.7000e-004	0.0000	14.7050
Vendor	0.0373	0.9123	0.2539	1.8800e-003	0.0448	7.3200e-003	0.0521	0.0129	7.0000e-003	0.0200	0.0000	180.1425	180.1425	9.3400e-003	0.0000	180.3761
Worker	0.0698	0.0536	0.5471	1.3900e-003	0.1376	9.3000e-004	0.1385	0.0366	8.5000e-004	0.0374	0.0000	125.5221	125.5221	3.7700e-003	0.0000	125.6163
Total	0.1092	1.0436	0.8155	3.4200e-003	0.1883	8.4800e-003	0.1967	0.0511	8.0700e-003	0.0591	0.0000	320.3452	320.3452	0.0141	0.0000	320.6974

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2224	1.9414	1.4592	2.2300e-003		0.1245	0.1245		0.1170	0.1170	0.0000	197.3466	197.3466	0.0484	0.0000	198.5553
Total	0.2224	1.9414	1.4592	2.2300e-003		0.1245	0.1245		0.1170	0.1170	0.0000	197.3466	197.3466	0.0484	0.0000	198.5553

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1000e-003	0.0777	0.0146	1.5000e-004	0.0111	2.3000e-004	0.0114	2.8100e-003	2.2000e-004	3.0300e-003	0.0000	14.6807	14.6807	9.7000e-004	0.0000	14.7050
Vendor	0.0373	0.9123	0.2539	1.8800e-003	0.0763	7.3200e-003	0.0836	0.0207	7.0000e-003	0.0277	0.0000	180.1425	180.1425	9.3400e-003	0.0000	180.3761
Worker	0.0698	0.0536	0.5471	1.3900e-003	0.2565	9.3000e-004	0.2574	0.0658	8.5000e-004	0.0666	0.0000	125.5221	125.5221	3.7700e-003	0.0000	125.6163
Total	0.1092	1.0436	0.8155	3.4200e-003	0.3440	8.4800e-003	0.3524	0.0893	8.0700e-003	0.0974	0.0000	320.3452	320.3452	0.0141	0.0000	320.6974

3.5 Exterior Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8110	306.8110	0.0747	0.0000	308.6795
Total	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8110	306.8110	0.0747	0.0000	308.6795

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	3.1000e-003	0.1171	0.0217	2.4000e-004	6.2800e-003	3.3000e-004	6.6100e-003	1.6600e-003	3.1000e-004	1.9800e-003	0.0000	22.9122	22.9122	1.4800e-003	0.0000	22.9492
Vendor	0.0525	1.3513	0.3627	2.9400e-003	0.0704	9.7100e-003	0.0801	0.0204	9.2900e-003	0.0296	0.0000	281.4918	281.4918	0.0140	0.0000	281.8408
Worker	0.0991	0.0738	0.7619	2.1200e-003	0.2163	1.4300e-003	0.2178	0.0575	1.3200e-003	0.0589	0.0000	191.4897	191.4897	5.2100e-003	0.0000	191.6201
Total	0.1546	1.5421	1.1463	5.3000e-003	0.2930	0.0115	0.3045	0.0795	0.0109	0.0905	0.0000	495.8937	495.8937	0.0207	0.0000	496.4101

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8106	306.8106	0.0747	0.0000	308.6792
Total	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8106	306.8106	0.0747	0.0000	308.6792

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.1000e-003	0.1171	0.0217	2.4000e-004	0.0115	3.3000e-004	0.0118	2.9500e-003	3.1000e-004	3.2600e-003	0.0000	22.9122	22.9122	1.4800e-003	0.0000	22.9492
Vendor	0.0525	1.3513	0.3627	2.9400e-003	0.1200	9.7100e-003	0.1297	0.0325	9.2900e-003	0.0418	0.0000	281.4918	281.4918	0.0140	0.0000	281.8408
Worker	0.0991	0.0738	0.7619	2.1200e-003	0.4033	1.4300e-003	0.4047	0.1034	1.3200e-003	0.1047	0.0000	191.4897	191.4897	5.2100e-003	0.0000	191.6201
Total	0.1546	1.5421	1.1463	5.3000e-003	0.5348	0.0115	0.5463	0.1389	0.0109	0.1498	0.0000	495.8937	495.8937	0.0207	0.0000	496.4101

3.5 Exterior Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0138	0.1247	0.1095	1.7000e-004		7.2600e-003	7.2600e-003		6.8300e-003	6.8300e-003	0.0000	15.0547	15.0547	3.6700e-003	0.0000	15.1465
Total	0.0138	0.1247	0.1095	1.7000e-004		7.2600e-003	7.2600e-003		6.8300e-003	6.8300e-003	0.0000	15.0547	15.0547	3.6700e-003	0.0000	15.1465

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	1.4000e-004	5.5100e-003	1.0300e-003	1.0000e-005	5.2800e-003	1.0000e-005	5.3000e-003	1.3000e-003	1.0000e-005	1.3200e-003	0.0000	1.1332	1.1332	7.0000e-005	0.0000	1.1349
Vendor	2.1100e-003	0.0607	0.0162	1.5000e-004	3.5100e-003	3.0000e-004	3.8100e-003	1.0100e-003	2.9000e-004	1.3000e-003	0.0000	13.9349	13.9349	6.4000e-004	0.0000	13.9509
Worker	4.5100e-003	3.2400e-003	0.0340	1.0000e-004	0.0108	7.0000e-005	0.0108	2.8700e-003	6.0000e-005	2.9300e-003	0.0000	9.2398	9.2398	2.3000e-004	0.0000	9.2455
Total	6.7600e-003	0.0694	0.0512	2.6000e-004	0.0196	3.8000e-004	0.0200	5.1800e-003	3.6000e-004	5.5500e-003	0.0000	24.3079	24.3079	9.4000e-004	0.0000	24.3313

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0138	0.1247	0.1095	1.7000e-004		7.2600e-003	7.2600e-003		6.8300e-003	6.8300e-003	0.0000	15.0546	15.0546	3.6700e-003	0.0000	15.1465
Total	0.0138	0.1247	0.1095	1.7000e-004		7.2600e-003	7.2600e-003		6.8300e-003	6.8300e-003	0.0000	15.0546	15.0546	3.6700e-003	0.0000	15.1465

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4000e-004	5.5100e-003	1.0300e-003	1.0000e-005	0.0105	1.0000e-005	0.0105	2.5900e-003	1.0000e-005	2.6000e-003	0.0000	1.1332	1.1332	7.0000e-005	0.0000	1.1349
Vendor	2.1100e-003	0.0607	0.0162	1.5000e-004	5.9800e-003	3.0000e-004	6.2800e-003	1.6200e-003	2.9000e-004	1.9100e-003	0.0000	13.9349	13.9349	6.4000e-004	0.0000	13.9509
Worker	4.5100e-003	3.2400e-003	0.0340	1.0000e-004	0.0201	7.0000e-005	0.0202	5.1500e-003	6.0000e-005	5.2200e-003	0.0000	9.2398	9.2398	2.3000e-004	0.0000	9.2455
Total	6.7600e-003	0.0694	0.0512	2.6000e-004	0.0366	3.8000e-004	0.0370	9.3600e-003	3.6000e-004	9.7300e-003	0.0000	24.3079	24.3079	9.4000e-004	0.0000	24.3313

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0237	0.2462	0.2564	4.0000e-004		0.0132	0.0132		0.0121	0.0121	0.0000	35.0494	35.0494	0.0113	0.0000	35.3328
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0237	0.2462	0.2564	4.0000e-004		0.0132	0.0132		0.0121	0.0121	0.0000	35.0494	35.0494	0.0113	0.0000	35.3328

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	1.1500e-003	0.0451	8.4500e-003	1.0000e-004	1.6900e-003	1.0000e-004	1.8000e-003	4.7000e-004	1.0000e-004	5.6000e-004	0.0000	9.2742	9.2742	5.7000e-004	0.0000	9.2884
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7000e-004	6.3000e-004	6.5700e-003	2.0000e-005	2.0800e-003	1.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.7000e-004	0.0000	1.7854	1.7854	4.0000e-005	0.0000	1.7865
Total	2.0200e-003	0.0457	0.0150	1.2000e-004	3.7700e-003	1.1000e-004	3.9000e-003	1.0200e-003	1.1000e-004	1.1300e-003	0.0000	11.0595	11.0595	6.1000e-004	0.0000	11.0748

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0237	0.2462	0.2564	4.0000e-004		0.0132	0.0132		0.0121	0.0121	0.0000	35.0493	35.0493	0.0113	0.0000	35.3327
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0237	0.2462	0.2564	4.0000e-004		0.0132	0.0132		0.0121	0.0121	0.0000	35.0493	35.0493	0.0113	0.0000	35.3327

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1500e-003	0.0451	8.4500e-003	1.0000e-004	2.9600e-003	1.0000e-004	3.0600e-003	7.8000e-004	1.0000e-004	8.7000e-004	0.0000	9.2742	9.2742	5.7000e-004	0.0000	9.2884
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7000e-004	6.3000e-004	6.5700e-003	2.0000e-005	3.8800e-003	1.0000e-005	3.9000e-003	1.0000e-003	1.0000e-005	1.0100e-003	0.0000	1.7854	1.7854	4.0000e-005	0.0000	1.7865
Total	2.0200e-003	0.0457	0.0150	1.2000e-004	6.8400e-003	1.1000e-004	6.9600e-003	1.7800e-003	1.1000e-004	1.8800e-003	0.0000	11.0595	11.0595	6.1000e-004	0.0000	11.0748

3.7 Interior Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.2907					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2400e-003	0.0295	0.0321	5.0000e-005		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	4.4682	4.4682	3.5000e-004	0.0000	4.4768
Total	2.2949	0.0295	0.0321	5.0000e-005		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	4.4682	4.4682	3.5000e-004	0.0000	4.4768

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4400e-003	1.7500e-003	0.0184	6.0000e-005	5.8300e-003	4.0000e-005	5.8700e-003	1.5500e-003	3.0000e-005	1.5900e-003	0.0000	4.9991	4.9991	1.2000e-004	0.0000	5.0022
Total	2.4400e-003	1.7500e-003	0.0184	6.0000e-005	5.8300e-003	4.0000e-005	5.8700e-003	1.5500e-003	3.0000e-005	1.5900e-003	0.0000	4.9991	4.9991	1.2000e-004	0.0000	5.0022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.2907					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2400e-003	0.0295	0.0321	5.0000e-005		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	4.4682	4.4682	3.5000e-004	0.0000	4.4768
Total	2.2949	0.0295	0.0321	5.0000e-005		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	4.4682	4.4682	3.5000e-004	0.0000	4.4768

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4400e-003	1.7500e-003	0.0184	6.0000e-005	0.0109	4.0000e-005	0.0109	2.7900e-003	3.0000e-005	2.8200e-003	0.0000	4.9991	4.9991	1.2000e-004	0.0000	5.0022
Total	2.4400e-003	1.7500e-003	0.0184	6.0000e-005	0.0109	4.0000e-005	0.0109	2.7900e-003	3.0000e-005	2.8200e-003	0.0000	4.9991	4.9991	1.2000e-004	0.0000	5.0022

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	0.1231	0.5278	1.5104	4.8200e-003	0.7816	4.8100e-003	0.7864	0.2012	4.5100e-003	0.2057	0.0000	440.3556	440.3556	0.0156	0.0000	440.7453
Unmitigated	0.1231	0.5278	1.5104	4.8200e-003	0.7816	4.8100e-003	0.7864	0.2012	4.5100e-003	0.2057	0.0000	440.3556	440.3556	0.0156	0.0000	440.7453

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Industrial Park	432.51	432.51	432.51	1,133,970	1,133,970

Parking Lot	0.00	0.00	0.00		
Total	432.51	432.51	432.51	1,133,970	1,133,970

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Parking Lot	9.50	7.30	7.30	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
Industrial Park	0.604810	0.038204	0.185149	0.108513	0.015498	0.004981	0.012268	0.020156	0.002083	0.001571	0.005363	0.000620	0.000785
Parking Lot	0.604810	0.038204	0.185149	0.108513	0.015498	0.004981	0.012268	0.020156	0.002083	0.001571	0.005363	0.000620	0.000785

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,054.0582	1,054.0582	0.1054	0.0218	1,063.1922
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,054.0582	1,054.0582	0.1054	0.0218	1,063.1922
NaturalGas Mitigated	0.0388	0.3523	0.2959	2.1100e-003		0.0268	0.0268		0.0268	0.0268	0.0000	383.5084	383.5084	7.3500e-003	7.0300e-003	385.7874
NaturalGas Unmitigated	0.0388	0.3523	0.2959	2.1100e-003		0.0268	0.0268		0.0268	0.0268	0.0000	383.5084	383.5084	7.3500e-003	7.0300e-003	385.7874

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	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
	kBTU/yr	tons/yr										MT/yr					
Industrial Park	7.18668e+006	0.0388	0.3523	0.2959	2.1100e-003		0.0268	0.0268		0.0268	0.0268	0.0000	383.5084	383.5084	7.3500e-003	7.0300e-003	385.7874
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0388	0.3523	0.2959	2.1100e-003		0.0268	0.0268		0.0268	0.0268	0.0000	383.5084	383.5084	7.3500e-003	7.0300e-003	385.7874

Mitigated

Land Use	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
	kBTU/yr	tons/yr										MT/yr					
Industrial Park	7.18668e+006	0.0388	0.3523	0.2959	2.1100e-003		0.0268	0.0268		0.0268	0.0268	0.0000	383.5084	383.5084	7.3500e-003	7.0300e-003	385.7874

Consumer Products	1.7101					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.1000e-004	5.0000e-005	5.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0105	0.0105	3.0000e-005	0.0000	0.0112
Total	1.9397	5.0000e-005	5.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0105	0.0105	3.0000e-005	0.0000	0.0112

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2291					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7101					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.1000e-004	5.0000e-005	5.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0105	0.0105	3.0000e-005	0.0000	0.0112
Total	1.9397	5.0000e-005	5.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0105	0.0105	3.0000e-005	0.0000	0.0112

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	207.9220	6.5984	0.1584	420.0971
Unmitigated	103.9610	3.2992	0.0792	210.0485

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	101.028 / 0	103.9610	3.2992	0.0792	210.0485
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		103.9610	3.2992	0.0792	210.0485

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
--	--------------------	-----------	-----	-----	------

Land Use	Mgal	MT/yr			
Industrial Park	101.028 / 0	207.9220	6.5984	0.1584	420.0971
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		207.9220	6.5984	0.1584	420.0971

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	109.9663	6.4988	0.0000	272.4368
Unmitigated	109.9663	6.4988	0.0000	272.4368

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	541.73	109.9663	6.4988	0.0000	272.4368
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		109.9663	6.4988	0.0000	272.4368

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	541.73	109.9663	6.4988	0.0000	272.4368
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		109.9663	6.4988	0.0000	272.4368

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	1	50	67	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number
----------------	--------

10.1 Stationary Sources

Unmitigated/Mitigated

Equipment Type	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Emergency Generator - Diesel	2.7500e-003	8.9600e-003	9.9700e-003	1.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	1.2757	1.2757	1.8000e-004	0.0000	1.2801
Total	2.7500e-003	8.9600e-003	9.9700e-003	1.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	1.2757	1.2757	1.8000e-004	0.0000	1.2801

11.0 Vegetation

237 Industrial - Option 2 Light Industrial uses - Santa Clara County, Annual

**237 Industrial - Option 2 Light Industrial uses
Santa Clara County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	728.00	1000sqft	40.00	728,000.00	0
Parking Lot	1,628.00	Space	0.00	651,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4	Operational Year		2020	
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Using PG&E 2020 Emission rate
 Land Use - Parking = Option 1 Parking of 2,621 spaces * (728ksf/1,200ksf) = 1,628 spaces. All acreage assigned to buildings
 Construction Phase - No construction plans available
 Trips and VMT - assume concrete and asphalt part of vendor trips - 3,762 concrete trips and 910 asphalt
 Demolition -
 Grading -
 Vehicle Trips - Provided trip rates same as CalEEMod default
 Road Dust - calculated Santa Clara County silt loading per CARB data
 Energy Use -
 Water And Wastewater - no septic
 Construction Off-road Equipment Mitigation -
 Stationary Sources - Emergency Generators and Fire Pumps - 50 kw standby generator

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblLandUse	LotAcreage	16.71	40.00
tblLandUse	LotAcreage	14.65	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2018	2020
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	67.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	1.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	212.00
tblTripsAndVMT	HaulingTripNumber	0.00	3,762.00
tblTripsAndVMT	HaulingTripNumber	0.00	910.00

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					
2025	0.2723	2.5759	2.4345	6.7100e-003	0.7642	0.0925	0.8567	0.3288	0.0855	0.4143	0.0000	601.8788	601.8788	0.1241	0.0000	604.9808
2026	0.4162	3.9127	3.9351	0.0160	0.8201	0.0749	0.8949	0.2224	0.0704	0.2928	0.0000	1,478.4857	1,478.4857	0.1054	0.0000	1,481.1206
2027	0.4063	3.8740	3.8501	0.0158	0.8201	0.0746	0.8947	0.2224	0.0702	0.2926	0.0000	1,460.2315	1,460.2315	0.1044	0.0000	1,462.8405
2028	4.2371	2.9133	3.0568	0.0117	0.5940	0.0631	0.6571	0.1608	0.0591	0.2199	0.0000	1,080.1679	1,080.1679	0.0892	0.0000	1,082.3968
Maximum	4.2371	3.9127	3.9351	0.0160	0.8201	0.0925	0.8949	0.3288	0.0855	0.4143	0.0000	1,478.4857	1,478.4857	0.1241	0.0000	1,481.1206

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					
2025	0.2723	2.5759	2.4345	6.7100e-003	0.7642	0.0925	0.8567	0.3288	0.0855	0.4143	0.0000	601.8784	601.8784	0.1241	0.0000	604.9804
2026	0.4162	3.9127	3.9351	0.0160	0.8201	0.0749	0.8949	0.2224	0.0704	0.2928	0.0000	1,478.4853	1,478.4853	0.1054	0.0000	1,481.1202
2027	0.4063	3.8740	3.8501	0.0158	0.8201	0.0746	0.8947	0.2224	0.0702	0.2926	0.0000	1,460.2311	1,460.2311	0.1044	0.0000	1,462.8402
2028	4.2371	2.9133	3.0568	0.0117	0.5940	0.0631	0.6571	0.1608	0.0591	0.2199	0.0000	1,080.1675	1,080.1675	0.0892	0.0000	1,082.3965
Maximum	4.2371	3.9127	3.9351	0.0160	0.8201	0.0925	0.8949	0.3288	0.0855	0.4143	0.0000	1,478.4853	1,478.4853	0.1241	0.0000	1,481.1202

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
29	1-1-2025	3-31-2025	0.5340	0.5340
30	4-1-2025	6-30-2025	0.7216	0.7216
31	7-1-2025	9-30-2025	0.8289	0.8289
32	10-1-2025	12-31-2025	0.7116	0.7116
33	1-1-2026	3-31-2026	1.0729	1.0729
34	4-1-2026	6-30-2026	1.0726	1.0726
35	7-1-2026	9-30-2026	1.0844	1.0844
36	10-1-2026	12-31-2026	1.0968	1.0968
37	1-1-2027	3-31-2027	1.0606	1.0606
38	4-1-2027	6-30-2027	1.0607	1.0607
39	7-1-2027	9-30-2027	1.0724	1.0724
40	10-1-2027	12-31-2027	1.0841	1.0841
41	1-1-2028	3-31-2028	1.3064	1.3064
42	4-1-2028	6-30-2028	3.3058	3.3058
43	7-1-2028	9-30-2028	2.5353	2.5353
		Highest	3.3058	3.3058

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	3.2805	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449
Energy	0.1040	0.9450	0.7938	5.6700e-003		0.0718	0.0718		0.0718	0.0718	0.0000	1,910.4180	1,910.4180	0.1079	0.0371	1,924.1716
Mobile	1.1365	5.0008	14.5264	0.0472	4.1607	0.0470	4.2076	1.1138	0.0441	1.1579	0.0000	4,318.5720	4,318.5720	0.1499	0.0000	4,322.3186
Stationary	2.7500e-003	8.9600e-003	9.9700e-003	1.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	1.2757	1.2757	1.8000e-004	0.0000	1.2801
Waste						0.0000	0.0000		0.0000	0.0000	183.2440	0.0000	183.2440	10.8294	0.0000	453.9793
Water						0.0000	0.0000		0.0000	0.0000	53.4097	119.8269	173.2366	5.4977	0.1320	350.0168
Total	4.5237	5.9549	15.3520	0.0529	4.1607	0.1193	4.2799	1.1138	0.1164	1.2302	236.6537	6,350.1347	6,586.7884	16.5851	0.1691	7,051.8112

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	3.2805	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449
Energy	0.1040	0.9450	0.7938	5.6700e-003		0.0718	0.0718		0.0718	0.0718	0.0000	1,910.4180	1,910.4180	0.1079	0.0371	1,924.1716
Mobile	1.1365	5.0008	14.5264	0.0472	4.1607	0.0470	4.2076	1.1138	0.0441	1.1579	0.0000	4,318.5720	4,318.5720	0.1499	0.0000	4,322.3186
Stationary	2.7500e-003	8.9600e-003	9.9700e-003	1.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	1.2757	1.2757	1.8000e-004	0.0000	1.2801
Waste						0.0000	0.0000		0.0000	0.0000	183.2440	0.0000	183.2440	10.8294	0.0000	453.9793
Water						0.0000	0.0000		0.0000	0.0000	53.4097	119.8269	173.2366	5.4977	0.1320	350.0168
Total	4.5237	5.9549	15.3520	0.0529	4.1607	0.1193	4.2799	1.1138	0.1164	1.2302	236.6537	6,350.1347	6,586.7884	16.5851	0.1691	7,051.8112

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2025	3/11/2025	5	50	
2	Site Preparation	Site Preparation	4/7/2025	5/16/2025	5	30	
3	Grading	Grading	6/2/2025	9/12/2025	5	75	
4	Exterior Building Construction	Building Construction	11/3/2025	9/1/2028	5	740	
5	Paving	Paving	2/4/2028	4/20/2028	5	55	
6	Interior Building Construction	Architectural Coating	5/20/2028	8/4/2028	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,092,000; Non-Residential Outdoor: 364,000; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	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	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Exterior Building Construction	Cranes	1	7.00	231	0.29
Exterior Building Construction	Forklifts	3	8.00	89	0.20
Exterior Building Construction	Generator Sets	1	8.00	84	0.74
Exterior Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Exterior Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Interior Building Construction	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	212.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Exterior Building Construction	9	579.00	226.00	3,762.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	910.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interior Building Construction	1	116.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										M/yr					
Fugitive Dust					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0523	0.4799	0.4855	9.7000e-004		0.0213	0.0213		0.0198	0.0198	0.0000	84.9941	84.9941	0.0237	0.0000	85.5875
Total	0.0523	0.4799	0.4855	9.7000e-004	1.0000e-005	0.0213	0.0213	0.0000	0.0198	0.0198	0.0000	84.9941	84.9941	0.0237	0.0000	85.5875

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	1.5000e-004	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0704	0.0704	0.0000	0.0000	0.0705
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-004	5.3000e-004	6.2300e-003	2.0000e-005	2.9700e-003	2.0000e-005	2.9900e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.1041	2.1041	4.0000e-005	0.0000	2.1051
Total	9.0000e-004	6.8000e-004	6.2800e-003	2.0000e-005	2.9900e-003	2.0000e-005	3.0100e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.1745	2.1745	4.0000e-005	0.0000	2.1755

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0523	0.4799	0.4855	9.7000e-004		0.0213	0.0213		0.0198	0.0198	0.0000	84.9940	84.9940	0.0237	0.0000	85.5874
Total	0.0523	0.4799	0.4855	9.7000e-004	1.0000e-005	0.0213	0.0213	0.0000	0.0198	0.0198	0.0000	84.9940	84.9940	0.0237	0.0000	85.5874

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	1.5000e-004	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0704	0.0704	0.0000	0.0000	0.0705
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-004	5.3000e-004	6.2300e-003	2.0000e-005	2.9700e-003	2.0000e-005	2.9900e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.1041	2.1041	4.0000e-005	0.0000	2.1051
Total	9.0000e-004	6.8000e-004	6.2800e-003	2.0000e-005	2.9900e-003	2.0000e-005	3.0100e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.1745	2.1745	4.0000e-005	0.0000	2.1755

3.3 Site Preparation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0371	0.3785	0.2687	5.7000e-004		0.0163	0.0163		0.0150	0.0150	0.0000	50.2005	50.2005	0.0162	0.0000	50.6064
Total	0.0371	0.3785	0.2687	5.7000e-004	0.2710	0.0163	0.2873	0.1490	0.0150	0.1640	0.0000	50.2005	50.2005	0.0162	0.0000	50.6064

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	3.8000e-004	4.4900e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.5150	1.5150	3.0000e-005	0.0000	1.5156
Total	6.5000e-004	3.8000e-004	4.4900e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.5150	1.5150	3.0000e-005	0.0000	1.5156

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0371	0.3785	0.2687	5.7000e-004		0.0163	0.0163		0.0150	0.0150	0.0000	50.2004	50.2004	0.0162	0.0000	50.6063
Total	0.0371	0.3785	0.2687	5.7000e-004	0.2710	0.0163	0.2873	0.1490	0.0150	0.1640	0.0000	50.2004	50.2004	0.0162	0.0000	50.6063

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	3.8000e-004	4.4900e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.5150	1.5150	3.0000e-005	0.0000	1.5156
Total	6.5000e-004	3.8000e-004	4.4900e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.5150	1.5150	3.0000e-005	0.0000	1.5156

3.4 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3253	0.0000	0.3253	0.1349	0.0000	0.1349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1088	1.0479	0.9874	2.3300e-003		0.0424	0.0424		0.0390	0.0390	0.0000	204.3983	204.3983	0.0661	0.0000	206.0510
Total	0.1088	1.0479	0.9874	2.3300e-003	0.3253	0.0424	0.3677	0.1349	0.0390	0.1739	0.0000	204.3983	204.3983	0.0661	0.0000	206.0510

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.2000e-004	0.0164	5.5700e-003	8.0000e-005	1.8000e-003	3.0000e-005	1.8300e-003	4.9000e-004	3.0000e-005	5.2000e-004	0.0000	7.4601	7.4601	3.2000e-004	0.0000	7.4681
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-003	1.0600e-003	0.0125	5.0000e-005	5.9500e-003	3.0000e-005	5.9800e-003	1.5800e-003	3.0000e-005	1.6100e-003	0.0000	4.2083	4.2083	7.0000e-005	0.0000	4.2101
Total	2.3200e-003	0.0174	0.0180	1.3000e-004	7.7500e-003	6.0000e-005	7.8100e-003	2.0700e-003	6.0000e-005	2.1300e-003	0.0000	11.6684	11.6684	3.9000e-004	0.0000	11.6782

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.3253	0.0000	0.3253	0.1349	0.0000	0.1349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1088	1.0479	0.9874	2.3300e-003		0.0424	0.0424		0.0390	0.0390	0.0000	204.3981	204.3981	0.0661	0.0000	206.0507
Total	0.1088	1.0479	0.9874	2.3300e-003	0.3253	0.0424	0.3677	0.1349	0.0390	0.1739	0.0000	204.3981	204.3981	0.0661	0.0000	206.0507

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.2000e-004	0.0164	5.5700e-003	8.0000e-005	1.8000e-003	3.0000e-005	1.8300e-003	4.9000e-004	3.0000e-005	5.2000e-004	0.0000	7.4601	7.4601	3.2000e-004	0.0000	7.4681
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-003	1.0600e-003	0.0125	5.0000e-005	5.9500e-003	3.0000e-005	5.9800e-003	1.5800e-003	3.0000e-005	1.6100e-003	0.0000	4.2083	4.2083	7.0000e-005	0.0000	4.2101
Total	2.3200e-003	0.0174	0.0180	1.3000e-004	7.7500e-003	6.0000e-005	7.8100e-003	2.0700e-003	6.0000e-005	2.1300e-003	0.0000	11.6684	11.6684	3.9000e-004	0.0000	11.6782

3.5 Exterior Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0294	0.2681	0.3458	5.8000e-004		0.0113	0.0113		0.0107	0.0107	0.0000	49.8627	49.8627	0.0117	0.0000	50.1557
Total	0.0294	0.2681	0.3458	5.8000e-004		0.0113	0.0113		0.0107	0.0107	0.0000	49.8627	49.8627	0.0117	0.0000	50.1557

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.4000e-004	0.0169	5.7400e-003	8.0000e-005	0.0244	3.0000e-005	0.0244	6.0300e-003	3.0000e-005	6.0600e-003	0.0000	7.6925	7.6925	3.3000e-004	0.0000	7.7007
Vendor	0.0105	0.3485	0.1057	1.2400e-003	0.0320	4.0000e-004	0.0324	9.2400e-003	3.9000e-004	9.6300e-003	0.0000	119.5237	119.5237	4.2800e-003	0.0000	119.6308
Worker	0.0298	0.0176	0.2069	7.7000e-004	0.0987	5.8000e-004	0.0993	0.0263	5.3000e-004	0.0268	0.0000	69.8491	69.8491	1.2200e-003	0.0000	69.8796
Total	0.0409	0.3830	0.3183	2.0900e-003	0.1551	1.0100e-003	0.1561	0.0415	9.5000e-004	0.0425	0.0000	197.0653	197.0653	5.8300e-003	0.0000	197.2110

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0294	0.2681	0.3458	5.8000e-004		0.0113	0.0113		0.0107	0.0107	0.0000	49.8626	49.8626	0.0117	0.0000	50.1557
Total	0.0294	0.2681	0.3458	5.8000e-004		0.0113	0.0113		0.0107	0.0107	0.0000	49.8626	49.8626	0.0117	0.0000	50.1557

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.4000e-004	0.0169	5.7400e-003	8.0000e-005	0.0244	3.0000e-005	0.0244	6.0300e-003	3.0000e-005	6.0600e-003	0.0000	7.6925	7.6925	3.3000e-004	0.0000	7.7007
Vendor	0.0105	0.3485	0.1057	1.2400e-003	0.0320	4.0000e-004	0.0324	9.2400e-003	3.9000e-004	9.6300e-003	0.0000	119.5237	119.5237	4.2800e-003	0.0000	119.6308
Worker	0.0298	0.0176	0.2069	7.7000e-004	0.0987	5.8000e-004	0.0993	0.0263	5.3000e-004	0.0268	0.0000	69.8491	69.8491	1.2200e-003	0.0000	69.8796
Total	0.0409	0.3830	0.3183	2.0900e-003	0.1551	1.0100e-003	0.1561	0.0415	9.5000e-004	0.0425	0.0000	197.0653	197.0653	5.8300e-003	0.0000	197.2110

3.5 Exterior Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2400e-003	0.1003	0.0351	4.8000e-004	0.0267	1.9000e-004	0.0269	6.8900e-003	1.8000e-004	7.0700e-003	0.0000	46.3795	46.3795	1.9800e-003	0.0000	46.4289
Vendor	0.0621	2.0872	0.6290	7.5000e-003	0.1941	2.4100e-003	0.1965	0.0561	2.3100e-003	0.0584	0.0000	721.1760	721.1760	0.0255	0.0000	721.8142
Worker	0.1723	0.0979	1.1720	4.5100e-003	0.5993	3.4100e-003	0.6027	0.1594	3.1300e-003	0.1625	0.0000	408.2753	408.2753	6.7400e-003	0.0000	408.4439
Total	0.2377	2.2854	1.8361	0.0125	0.8201	6.0100e-003	0.8261	0.2224	5.6200e-003	0.2280	0.0000	1,175.8308	1,175.8308	0.0343	0.0000	1,176.6871

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2400e-003	0.1003	0.0351	4.8000e-004	0.0267	1.9000e-004	0.0269	6.8900e-003	1.8000e-004	7.0700e-003	0.0000	46.3795	46.3795	1.9800e-003	0.0000	46.4289
Vendor	0.0621	2.0872	0.6290	7.5000e-003	0.1941	2.4100e-003	0.1965	0.0561	2.3100e-003	0.0584	0.0000	721.1760	721.1760	0.0255	0.0000	721.8142
Worker	0.1723	0.0979	1.1720	4.5100e-003	0.5993	3.4100e-003	0.6027	0.1594	3.1300e-003	0.1625	0.0000	408.2753	408.2753	6.7400e-003	0.0000	408.4439
Total	0.2377	2.2854	1.8361	0.0125	0.8201	6.0100e-003	0.8261	0.2224	5.6200e-003	0.2280	0.0000	1,175.8308	1,175.8308	0.0343	0.0000	1,176.6871

3.5 Exterior Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2100e-003	0.0981	0.0353	4.7000e-004	0.0267	1.8000e-004	0.0269	6.8900e-003	1.7000e-004	7.0600e-003	0.0000	46.0843	46.0843	1.9700e-003	0.0000	46.1336
Vendor	0.0608	2.0587	0.6186	7.4500e-003	0.1941	2.3700e-003	0.1965	0.0561	2.2600e-003	0.0584	0.0000	717.1442	717.1442	0.0251	0.0000	717.7713
Worker	0.1639	0.0899	1.0971	4.3600e-003	0.5993	3.2400e-003	0.6025	0.1594	2.9800e-003	0.1624	0.0000	394.3481	394.3481	6.1600e-003	0.0000	394.5021
Total	0.2279	2.2467	1.7511	0.0123	0.8201	5.7900e-003	0.8259	0.2224	5.4100e-003	0.2278	0.0000	1,157.5766	1,157.5766	0.0332	0.0000	1,158.4070

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2100e-003	0.0981	0.0353	4.7000e-004	0.0267	1.8000e-004	0.0269	6.8900e-003	1.7000e-004	7.0600e-003	0.0000	46.0843	46.0843	1.9700e-003	0.0000	46.1336
Vendor	0.0608	2.0587	0.6186	7.4500e-003	0.1941	2.3700e-003	0.1965	0.0561	2.2600e-003	0.0584	0.0000	717.1442	717.1442	0.0251	0.0000	717.7713
Worker	0.1639	0.0899	1.0971	4.3600e-003	0.5993	3.2400e-003	0.6025	0.1594	2.9800e-003	0.1624	0.0000	394.3481	394.3481	6.1600e-003	0.0000	394.5021
Total	0.2279	2.2467	1.7511	0.0123	0.8201	5.7900e-003	0.8259	0.2224	5.4100e-003	0.2278	0.0000	1,157.5766	1,157.5766	0.0332	0.0000	1,158.4070

3.5 Exterior Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1197	1.0911	1.4074	2.3600e-003		0.0462	0.0462		0.0434	0.0434	0.0000	202.9295	202.9295	0.0477	0.0000	204.1221
Total	0.1197	1.0911	1.4074	2.3600e-003		0.0462	0.0462		0.0434	0.0434	0.0000	202.9295	202.9295	0.0477	0.0000	204.1221

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1300e-003	0.0646	0.0238	3.2000e-004	0.0258	1.2000e-004	0.0259	6.5500e-003	1.1000e-004	6.6700e-003	0.0000	30.7339	30.7339	1.3200e-003	0.0000	30.7668
Vendor	0.0400	1.3646	0.4099	4.9700e-003	0.1302	1.5600e-003	0.1317	0.0376	1.4900e-003	0.0391	0.0000	478.5993	478.5993	0.0166	0.0000	479.0129
Worker	0.1039	0.0556	0.6916	2.8300e-003	0.4018	2.0200e-003	0.4038	0.1069	1.8600e-003	0.1087	0.0000	256.1780	256.1780	3.7900e-003	0.0000	256.2728
Total	0.1461	1.4847	1.1252	8.1200e-003	0.5577	3.7000e-003	0.5614	0.1510	3.4600e-003	0.1545	0.0000	765.5112	765.5112	0.0217	0.0000	766.0525

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1197	1.0911	1.4074	2.3600e-003		0.0462	0.0462		0.0434	0.0434	0.0000	202.9293	202.9293	0.0477	0.0000	204.1218
Total	0.1197	1.0911	1.4074	2.3600e-003		0.0462	0.0462		0.0434	0.0434	0.0000	202.9293	202.9293	0.0477	0.0000	204.1218

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1300e-003	0.0646	0.0238	3.2000e-004	0.0258	1.2000e-004	0.0259	6.5500e-003	1.1000e-004	6.6700e-003	0.0000	30.7339	30.7339	1.3200e-003	0.0000	30.7668
Vendor	0.0400	1.3646	0.4099	4.9700e-003	0.1302	1.5600e-003	0.1317	0.0376	1.4900e-003	0.0391	0.0000	478.5993	478.5993	0.0166	0.0000	479.0129
Worker	0.1039	0.0556	0.6916	2.8300e-003	0.4018	2.0200e-003	0.4038	0.1069	1.8600e-003	0.1087	0.0000	256.1780	256.1780	3.7900e-003	0.0000	256.2728
Total	0.1461	1.4847	1.1252	8.1200e-003	0.5577	3.7000e-003	0.5614	0.1510	3.4600e-003	0.1545	0.0000	765.5112	765.5112	0.0217	0.0000	766.0525

3.6 Paving - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0252	0.2360	0.4009	6.3000e-004		0.0115	0.0115		0.0106	0.0106	0.0000	55.0530	55.0530	0.0178	0.0000	55.4981
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0252	0.2360	0.4009	6.3000e-004		0.0115	0.0115		0.0106	0.0106	0.0000	55.0530	55.0530	0.0178	0.0000	55.4981

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1800e-003	0.0660	0.0244	3.2000e-004	7.7200e-003	1.2000e-004	7.8400e-003	2.1200e-003	1.2000e-004	2.2400e-003	0.0000	31.4365	31.4365	1.3500e-003	0.0000	31.4701
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5000e-004	4.5000e-004	5.6300e-003	2.0000e-005	3.2700e-003	2.0000e-005	3.2900e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.0858	2.0858	3.0000e-005	0.0000	2.0866
Total	3.0300e-003	0.0665	0.0300	3.4000e-004	0.0110	1.4000e-004	0.0111	2.9900e-003	1.4000e-004	3.1300e-003	0.0000	33.5223	33.5223	1.3800e-003	0.0000	33.5567

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0252	0.2360	0.4009	6.3000e-004		0.0115	0.0115		0.0106	0.0106	0.0000	55.0529	55.0529	0.0178	0.0000	55.4980
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0252	0.2360	0.4009	6.3000e-004		0.0115	0.0115		0.0106	0.0106	0.0000	55.0529	55.0529	0.0178	0.0000	55.4980

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1800e-003	0.0660	0.0244	3.2000e-004	7.7200e-003	1.2000e-004	7.8400e-003	2.1200e-003	1.2000e-004	2.2400e-003	0.0000	31.4365	31.4365	1.3500e-003	0.0000	31.4701
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5000e-004	4.5000e-004	5.6300e-003	2.0000e-005	3.2700e-003	2.0000e-005	3.2900e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.0858	2.0858	3.0000e-005	0.0000	2.0866
Total	3.0300e-003	0.0665	0.0300	3.4000e-004	0.0110	1.4000e-004	0.0111	2.9900e-003	1.4000e-004	3.1300e-003	0.0000	33.5223	33.5223	1.3800e-003	0.0000	33.5567

3.7 Interior Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.9319					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7000e-003	0.0315	0.0498	8.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003	0.0000	7.0215	7.0215	3.8000e-004	0.0000	7.0310
Total	3.9366	0.0315	0.0498	8.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003	0.0000	7.0215	7.0215	3.8000e-004	0.0000	7.0310

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5400e-003	3.5000e-003	0.0435	1.8000e-004	0.0253	1.3000e-004	0.0254	6.7300e-003	1.2000e-004	6.8500e-003	0.0000	16.1304	16.1304	2.4000e-004	0.0000	16.1364
Total	6.5400e-003	3.5000e-003	0.0435	1.8000e-004	0.0253	1.3000e-004	0.0254	6.7300e-003	1.2000e-004	6.8500e-003	0.0000	16.1304	16.1304	2.4000e-004	0.0000	16.1364

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.9319					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7000e-003	0.0315	0.0498	8.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003	0.0000	7.0214	7.0214	3.8000e-004	0.0000	7.0310
Total	3.9366	0.0315	0.0498	8.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003	0.0000	7.0214	7.0214	3.8000e-004	0.0000	7.0310

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5400e-003	3.5000e-003	0.0435	1.8000e-004	0.0253	1.3000e-004	0.0254	6.7300e-003	1.2000e-004	6.8500e-003	0.0000	16.1304	16.1304	2.4000e-004	0.0000	16.1364
Total	6.5400e-003	3.5000e-003	0.0435	1.8000e-004	0.0253	1.3000e-004	0.0254	6.7300e-003	1.2000e-004	6.8500e-003	0.0000	16.1304	16.1304	2.4000e-004	0.0000	16.1364

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.1365	5.0008	14.5264	0.0472	4.1607	0.0470	4.2076	1.1138	0.0441	1.1579	0.0000	4,318.5720	4,318.5720	0.1499	0.0000	4,322.3186
Unmitigated	1.1365	5.0008	14.5264	0.0472	4.1607	0.0470	4.2076	1.1138	0.0441	1.1579	0.0000	4,318.5720	4,318.5720	0.1499	0.0000	4,322.3186

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	5,074.16	960.96	495.04	11,188,734	11,188,734
Parking Lot	0.00	0.00	0.00		
Total	5,074.16	960.96	495.04	11,188,734	11,188,734

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.604810	0.038204	0.185149	0.108513	0.015498	0.004981	0.012268	0.020156	0.002083	0.001571	0.005363	0.000620	0.000785
Parking Lot	0.604810	0.038204	0.185149	0.108513	0.015498	0.004981	0.012268	0.020156	0.002083	0.001571	0.005363	0.000620	0.000785

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	881.7004	881.7004	0.0882	0.0182	889.3408
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	881.7004	881.7004	0.0882	0.0182	889.3408
NaturalGas Mitigated	0.1040	0.9450	0.7938	5.6700e-003		0.0718	0.0718		0.0718	0.0718	0.0000	1,028.7176	1,028.7176	0.0197	0.0189	1,034.8308
NaturalGas Unmitigated	0.1040	0.9450	0.7938	5.6700e-003		0.0718	0.0718		0.0718	0.0718	0.0000	1,028.7176	1,028.7176	0.0197	0.0189	1,034.8308

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	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
General Light Industry	1.92774e+007	0.1040	0.9450	0.7938	5.6700e-003		0.0718	0.0718		0.0718	0.0718	0.0000	1,028.7176	1,028.7176	0.0197	0.0189	1,034.8308
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1040	0.9450	0.7938	5.6700e-003		0.0718	0.0718		0.0718	0.0718	0.0000	1,028.7176	1,028.7176	0.0197	0.0189	1,034.8308

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	1.92774e+007	0.1040	0.9450	0.7938	5.6700e-003		0.0718	0.0718		0.0718	0.0718	0.0000	1,028.7176	1,028.7176	0.0197	0.0189	1,034.8308
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1040	0.9450	0.7938	5.6700e-003		0.0718	0.0718		0.0718	0.0718	0.0000	1,028.7176	1,028.7176	0.0197	0.0189	1,034.8308

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	6.12976e+006	806.3196	0.0806	0.0167	813.3068
Parking Lot	573056	75.3808	7.5400e-003	1.5600e-003	76.0340
Total		881.7004	0.0882	0.0182	889.3408

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	6.12976e+006	806.3196	0.0806	0.0167	813.3068
Parking Lot	573056	75.3808	7.5400e-003	1.5600e-003	76.0340
Total		881.7004	0.0882	0.0182	889.3408

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	3.2805	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449
Unmitigated	3.2805	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3932					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8853					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0500e-003	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449
Total	3.2805	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3932					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8853					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0500e-003	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449
Total	3.2805	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	173.2366	5.4977	0.1320	350.0168
Unmitigated	173.2366	5.4977	0.1320	350.0168

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	M1/yr			
General Light Industry	168.35 / 0	173.2366	5.4977	0.1320	350.0168
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		173.2366	5.4977	0.1320	350.0168

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	168.35 / 0	173.2366	5.4977	0.1320	350.0168
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		173.2366	5.4977	0.1320	350.0168

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	183.2440	10.8294	0.0000	453.9793
Unmitigated	183.2440	10.8294	0.0000	453.9793

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	902.72	183.2440	10.8294	0.0000	453.9793
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		183.2440	10.8294	0.0000	453.9793

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	902.72	183.2440	10.8294	0.0000	453.9793
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		183.2440	10.8294	0.0000	453.9793

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	1	50	67	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number
----------------	--------

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel	2.7500e-003	8.9600e-003	9.9700e-003	1.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	1.2757	1.2757	1.8000e-004	0.0000	1.2801
Total	2.7500e-003	8.9600e-003	9.9700e-003	1.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	1.2757	1.2757	1.8000e-004	0.0000	1.2801

11.0 Vegetation