

City of Eastvale

LBA Realty Eastvale Industrial Development Project

Draft **Environmental Impact Report**

SCH No. 2015031107



December 2015

DRAFT
ENVIRONMENTAL IMPACT REPORT

**LBA REALTY EASTVALE INDUSTRIAL
DEVELOPMENT PROJECT**

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December 2015

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Appendix F

Greenhouse Gas Emission Output Files



LGA Realty Eastvale Industrial Development Project
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	446.17	1000sqft	10.24	446,173.00	0
Parking Lot	543.00	Space	4.89	217,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 319 vehicle stalls

64 trailer parking spaces = 128

48 overflow stalls trailer size = 96

Construction Phase - default phase lengths multiplied by 1.75 to reflect construction schedule June 2016 - December 2018.

Demolition -

Grading - acreage of APN 160-020-033 used for disturbance area

Architectural Coating - Use of low-VOC paint (150 g/L) for nonflat coatings per SCAQMD Rule 1113

Vehicle Trips - Based on 766 total trips (passenger and truck) from traffic study.

Area Mitigation - SCAQMD Rule 1113

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblConstructionPhase	NumDays	300.00	525.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	30.00	53.00
tblConstructionPhase	NumDays	20.00	35.00
tblConstructionPhase	PhaseEndDate	1/2/2019	12/14/2018
tblConstructionPhase	PhaseEndDate	6/14/2016	6/24/2016
tblConstructionPhase	PhaseStartDate	11/1/2018	10/15/2018
tblGrading	AcresOfGrading	132.50	23.50
tblLandUse	LandUseSquareFeet	446,170.00	446,173.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblVehicleTrips	ST_TR	2.59	1.72
tblVehicleTrips	SU_TR	2.59	1.72
tblVehicleTrips	WD_TR	2.59	1.72

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.4455	4.1181	3.6953	5.6900e-003	0.4952	0.2096	0.7048	0.2216	0.1944	0.4161	0.0000	499.4646	499.4646	0.0885	0.0000	501.3233
2017	0.6488	4.7895	5.9266	0.0114	0.4852	0.2529	0.7380	0.1306	0.2371	0.3677	0.0000	944.5780	944.5780	0.0971	0.0000	946.6173
2018	3.5959	3.3558	4.3088	8.7100e-003	0.3582	0.1709	0.5291	0.0963	0.1602	0.2566	0.0000	705.5709	705.5709	0.0789	0.0000	707.2269
Total	4.6901	12.2634	13.9307	0.0258	1.3386	0.6334	1.9719	0.4486	0.5917	1.0403	0.0000	2,149.6136	2,149.6136	0.2645	0.0000	2,155.1675

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.4455	4.1181	3.6953	5.6900e-003	0.4952	0.2096	0.7048	0.2216	0.1944	0.4161	0.0000	499.4643	499.4643	0.0885	0.0000	501.3229
2017	0.6488	4.7895	5.9266	0.0114	0.4852	0.2529	0.7380	0.1306	0.2371	0.3677	0.0000	944.5776	944.5776	0.0971	0.0000	946.6169
2018	3.5959	3.3558	4.3088	8.7100e-003	0.3582	0.1709	0.5291	0.0963	0.1602	0.2566	0.0000	705.5706	705.5706	0.0789	0.0000	707.2266
Total	4.6901	12.2634	13.9307	0.0258	1.3386	0.6334	1.9719	0.4486	0.5917	1.0403	0.0000	2,149.6126	2,149.6126	0.2645	0.0000	2,155.1665

	ROG	NOx	CO	SO2	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

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	2.9229	1.2000e-004	0.0128	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0246	0.0246	7.0000e-005	0.0000	0.0260
Energy	5.1500e-003	0.0468	0.0393	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	491.2425	491.2425	0.0212	5.1200e-003	493.2757
Mobile	0.4595	1.6464	5.9376	0.0182	1.2467	0.0254	1.2721	0.3336	0.0234	0.3570	0.0000	1,321.7161	1,321.7161	0.0475	0.0000	1,322.7131
Waste						0.0000	0.0000		0.0000	0.0000	85.1344	0.0000	85.1344	5.0313	0.0000	190.7917
Water						0.0000	0.0000		0.0000	0.0000	32.7332	384.4553	417.1885	3.3797	0.0830	513.9047
Total	3.3875	1.6933	5.9896	0.0184	1.2467	0.0290	1.2757	0.3336	0.0270	0.3606	117.8677	2,197.4384	2,315.3061	8.4798	0.0882	2,520.7111

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.9229	1.2000e-004	0.0128	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0246	0.0246	7.0000e-005	0.0000	0.0260
Energy	5.1500e-003	0.0468	0.0393	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	491.2425	491.2425	0.0212	5.1200e-003	493.2757
Mobile	0.4595	1.6464	5.9376	0.0182	1.2467	0.0254	1.2721	0.3336	0.0234	0.3570	0.0000	1,321.716 1	1,321.716 1	0.0475	0.0000	1,322.713 1
Waste						0.0000	0.0000		0.0000	0.0000	42.5672	0.0000	42.5672	2.5157	0.0000	95.3959
Water						0.0000	0.0000		0.0000	0.0000	32.7332	384.4553	417.1885	3.3791	0.0829	513.8525
Total	3.3875	1.6933	5.9896	0.0184	1.2467	0.0290	1.2757	0.3336	0.0270	0.3606	75.3004	2,197.438 4	2,272.738 8	5.9635	0.0880	2,425.263 0

	ROG	NOx	CO	SO2	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	36.11	0.00	1.84	29.67	0.15	3.79

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2016	6/24/2016	5	10	
2	Grading	Grading	6/25/2016	9/7/2016	5	53	
3	Building Construction	Building Construction	9/8/2016	9/12/2018	5	525	
4	Paving	Paving	9/13/2018	10/31/2018	5	35	
5	Architectural Coating	Architectural Coating	10/15/2018	12/14/2018	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 23.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 679,034; Non-Residential Outdoor: 226,345 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	279.00	109.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	56.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1626	0.0000	0.1626	0.0894	0.0000	0.0894	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0457	0.4917	0.3700	3.5000e-004		0.0265	0.0265		0.0243	0.0243	0.0000	33.1894	33.1894	0.0100	0.0000	33.3996
Total	0.0457	0.4917	0.3700	3.5000e-004	0.1626	0.0265	0.1891	0.0894	0.0243	0.1137	0.0000	33.1894	33.1894	0.0100	0.0000	33.3996

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	9.6000e-004	9.9400e-003	2.0000e-005	1.7800e-003	2.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.9000e-004	0.0000	1.6652	1.6652	9.0000e-005	0.0000	1.6670
Total	6.5000e-004	9.6000e-004	9.9400e-003	2.0000e-005	1.7800e-003	2.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.9000e-004	0.0000	1.6652	1.6652	9.0000e-005	0.0000	1.6670

3.2 Site Preparation - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1626	0.0000	0.1626	0.0894	0.0000	0.0894	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0457	0.4917	0.3700	3.5000e-004		0.0265	0.0265		0.0243	0.0243	0.0000	33.1894	33.1894	0.0100	0.0000	33.3996
Total	0.0457	0.4917	0.3700	3.5000e-004	0.1626	0.0265	0.1891	0.0894	0.0243	0.1137	0.0000	33.1894	33.1894	0.0100	0.0000	33.3996

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	9.6000e-004	9.9400e-003	2.0000e-005	1.7800e-003	2.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.9000e-004	0.0000	1.6652	1.6652	9.0000e-005	0.0000	1.6670
Total	6.5000e-004	9.6000e-004	9.9400e-003	2.0000e-005	1.7800e-003	2.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.9000e-004	0.0000	1.6652	1.6652	9.0000e-005	0.0000	1.6670

3.3 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1721	0.0000	0.1721	0.0891	0.0000	0.0891	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1717	1.9826	1.3021	1.6400e-003		0.0950	0.0950		0.0874	0.0874	0.0000	154.2187	154.2187	0.0465	0.0000	155.1956
Total	0.1717	1.9826	1.3021	1.6400e-003	0.1721	0.0950	0.2670	0.0891	0.0874	0.1765	0.0000	154.2187	154.2187	0.0465	0.0000	155.1956

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	2.1300e-003	3.1300e-003	0.0325	7.0000e-005	5.8100e-003	5.0000e-005	5.8600e-003	1.5400e-003	5.0000e-005	1.5900e-003	0.0000	5.4477	5.4477	2.9000e-004	0.0000	5.4539
Total	2.1300e-003	3.1300e-003	0.0325	7.0000e-005	5.8100e-003	5.0000e-005	5.8600e-003	1.5400e-003	5.0000e-005	1.5900e-003	0.0000	5.4477	5.4477	2.9000e-004	0.0000	5.4539

3.3 Grading - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1721	0.0000	0.1721	0.0891	0.0000	0.0891	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1717	1.9826	1.3021	1.6400e-003		0.0950	0.0950		0.0874	0.0874	0.0000	154.2185	154.2185	0.0465	0.0000	155.1954
Total	0.1717	1.9826	1.3021	1.6400e-003	0.1721	0.0950	0.2670	0.0891	0.0874	0.1765	0.0000	154.2185	154.2185	0.0465	0.0000	155.1954

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	2.1300e-003	3.1300e-003	0.0325	7.0000e-005	5.8100e-003	5.0000e-005	5.8600e-003	1.5400e-003	5.0000e-005	1.5900e-003	0.0000	5.4477	5.4477	2.9000e-004	0.0000	5.4539
Total	2.1300e-003	3.1300e-003	0.0325	7.0000e-005	5.8100e-003	5.0000e-005	5.8600e-003	1.5400e-003	5.0000e-005	1.5900e-003	0.0000	5.4477	5.4477	2.9000e-004	0.0000	5.4539

3.4 Building Construction - 2016**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1397	1.1688	0.7588	1.1000e-003		0.0807	0.0807		0.0758	0.0758	0.0000	99.2830	99.2830	0.0246	0.0000	99.8001
Total	0.1397	1.1688	0.7588	1.1000e-003		0.0807	0.0807		0.0758	0.0758	0.0000	99.2830	99.2830	0.0246	0.0000	99.8001

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0397	0.4035	0.5201	9.7000e-004	0.0275	6.3800e-003	0.0339	7.8500e-003	5.8700e-003	0.0137	0.0000	88.0821	88.0821	6.4000e-004	0.0000	88.0955
Worker	0.0460	0.0675	0.7019	1.5400e-003	0.1255	1.0700e-003	0.1266	0.0333	9.8000e-004	0.0343	0.0000	117.5786	117.5786	6.3300e-003	0.0000	117.7116
Total	0.0856	0.4710	1.2220	2.5100e-003	0.1530	7.4500e-003	0.1605	0.0412	6.8500e-003	0.0480	0.0000	205.6607	205.6607	6.9700e-003	0.0000	205.8071

3.4 Building Construction - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1397	1.1688	0.7588	1.1000e-003		0.0807	0.0807		0.0758	0.0758	0.0000	99.2829	99.2829	0.0246	0.0000	99.8000
Total	0.1397	1.1688	0.7588	1.1000e-003		0.0807	0.0807		0.0758	0.0758	0.0000	99.2829	99.2829	0.0246	0.0000	99.8000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0397	0.4035	0.5201	9.7000e-004	0.0275	6.3800e-003	0.0339	7.8500e-003	5.8700e-003	0.0137	0.0000	88.0821	88.0821	6.4000e-004	0.0000	88.0955
Worker	0.0460	0.0675	0.7019	1.5400e-003	0.1255	1.0700e-003	0.1266	0.0333	9.8000e-004	0.0343	0.0000	117.5786	117.5786	6.3300e-003	0.0000	117.7116
Total	0.0856	0.4710	1.2220	2.5100e-003	0.1530	7.4500e-003	0.1605	0.0412	6.8500e-003	0.0480	0.0000	205.6607	205.6607	6.9700e-003	0.0000	205.8071

3.4 Building Construction - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4033	3.4327	2.3568	3.4900e-003		0.2316	0.2316		0.2175	0.2175	0.0000	311.3228	311.3228	0.0766	0.0000	312.9319
Total	0.4033	3.4327	2.3568	3.4900e-003		0.2316	0.2316		0.2175	0.2175	0.0000	311.3228	311.3228	0.0766	0.0000	312.9319

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1149	1.1634	1.5628	3.0700e-003	0.0872	0.0181	0.1053	0.0249	0.0166	0.0415	0.0000	274.7588	274.7588	1.9600e-003	0.0000	274.7999
Worker	0.1305	0.1933	2.0070	4.8900e-003	0.3979	3.2600e-003	0.4012	0.1057	3.0100e-003	0.1087	0.0000	358.4964	358.4964	0.0185	0.0000	358.8855
Total	0.2455	1.3567	3.5698	7.9600e-003	0.4852	0.0213	0.5065	0.1306	0.0196	0.1502	0.0000	633.2552	633.2552	0.0205	0.0000	633.6854

3.4 Building Construction - 2017**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4033	3.4327	2.3568	3.4900e-003		0.2316	0.2316		0.2175	0.2175	0.0000	311.3225	311.3225	0.0766	0.0000	312.9315
Total	0.4033	3.4327	2.3568	3.4900e-003		0.2316	0.2316		0.2175	0.2175	0.0000	311.3225	311.3225	0.0766	0.0000	312.9315

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1149	1.1634	1.5628	3.0700e-003	0.0872	0.0181	0.1053	0.0249	0.0166	0.0415	0.0000	274.7588	274.7588	1.9600e-003	0.0000	274.7999
Worker	0.1305	0.1933	2.0070	4.8900e-003	0.3979	3.2600e-003	0.4012	0.1057	3.0100e-003	0.1087	0.0000	358.4964	358.4964	0.0185	0.0000	358.8855
Total	0.2455	1.3567	3.5698	7.9600e-003	0.4852	0.0213	0.5065	0.1306	0.0196	0.1502	0.0000	633.2552	633.2552	0.0205	0.0000	633.6854

3.4 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	0.2442	2.1284	1.6042	2.4500e-003		0.1367	0.1367		0.1285	0.1285	0.0000	216.6443	216.6443	0.0530	0.0000	217.7576
Total	0.2442	2.1284	1.6042	2.4500e-003		0.1367	0.1367		0.1285	0.1285	0.0000	216.6443	216.6443	0.0530	0.0000	217.7576

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0757	0.7512	1.0538	2.1600e-003	0.0614	0.0120	0.0734	0.0175	0.0110	0.0285	0.0000	190.1413	190.1413	1.3700e-003	0.0000	190.1701
Worker	0.0825	0.1234	1.2791	3.4400e-003	0.2801	2.2300e-003	0.2823	0.0744	2.0700e-003	0.0765	0.0000	242.9084	242.9084	0.0121	0.0000	243.1626
Total	0.1582	0.8746	2.3329	5.6000e-003	0.3415	0.0142	0.3557	0.0919	0.0131	0.1050	0.0000	433.0497	433.0497	0.0135	0.0000	433.3326

3.4 Building Construction - 2018**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2442	2.1284	1.6042	2.4500e-003		0.1367	0.1367		0.1285	0.1285	0.0000	216.6440	216.6440	0.0530	0.0000	217.7574
Total	0.2442	2.1284	1.6042	2.4500e-003		0.1367	0.1367		0.1285	0.1285	0.0000	216.6440	216.6440	0.0530	0.0000	217.7574

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0757	0.7512	1.0538	2.1600e-003	0.0614	0.0120	0.0734	0.0175	0.0110	0.0285	0.0000	190.1413	190.1413	1.3700e-003	0.0000	190.1701
Worker	0.0825	0.1234	1.2791	3.4400e-003	0.2801	2.2300e-003	0.2823	0.0744	2.0700e-003	0.0765	0.0000	242.9084	242.9084	0.0121	0.0000	243.1626
Total	0.1582	0.8746	2.3329	5.6000e-003	0.3415	0.0142	0.3557	0.0919	0.0131	0.1050	0.0000	433.0497	433.0497	0.0135	0.0000	433.3326

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0282	0.3004	0.2537	3.9000e-004		0.0164	0.0164		0.0151	0.0151	0.0000	35.6453	35.6453	0.0111	0.0000	35.8783
Paving	6.4100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0346	0.3004	0.2537	3.9000e-004		0.0164	0.0164		0.0151	0.0151	0.0000	35.6453	35.6453	0.0111	0.0000	35.8783

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5000e-004	1.2700e-003	0.0132	4.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.9000e-004	0.0000	2.4977	2.4977	1.2000e-004	0.0000	2.5004
Total	8.5000e-004	1.2700e-003	0.0132	4.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.9000e-004	0.0000	2.4977	2.4977	1.2000e-004	0.0000	2.5004

3.5 Paving - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0282	0.3004	0.2537	3.9000e-004		0.0164	0.0164		0.0151	0.0151	0.0000	35.6453	35.6453	0.0111	0.0000	35.8783
Paving	6.4100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0346	0.3004	0.2537	3.9000e-004		0.0164	0.0164		0.0151	0.0151	0.0000	35.6453	35.6453	0.0111	0.0000	35.8783

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5000e-004	1.2700e-003	0.0132	4.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.9000e-004	0.0000	2.4977	2.4977	1.2000e-004	0.0000	2.5004
Total	8.5000e-004	1.2700e-003	0.0132	4.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.9000e-004	0.0000	2.4977	2.4977	1.2000e-004	0.0000	2.5004

3.6 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.1473					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.7200e-003	0.0451	0.0417	7.0000e-005		3.3900e-003	3.3900e-003		3.3900e-003	3.3900e-003	0.0000	5.7448	5.7448	5.5000e-004	0.0000	5.7563
Total	3.1540	0.0451	0.0417	7.0000e-005		3.3900e-003	3.3900e-003		3.3900e-003	3.3900e-003	0.0000	5.7448	5.7448	5.5000e-004	0.0000	5.7563

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0700e-003	6.0900e-003	0.0631	1.7000e-004	0.0138	1.1000e-004	0.0139	3.6700e-003	1.0000e-004	3.7700e-003	0.0000	11.9891	11.9891	6.0000e-004	0.0000	12.0017
Total	4.0700e-003	6.0900e-003	0.0631	1.7000e-004	0.0138	1.1000e-004	0.0139	3.6700e-003	1.0000e-004	3.7700e-003	0.0000	11.9891	11.9891	6.0000e-004	0.0000	12.0017

3.6 Architectural Coating - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.1473					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.7200e-003	0.0451	0.0417	7.0000e-005		3.3900e-003	3.3900e-003		3.3900e-003	3.3900e-003	0.0000	5.7448	5.7448	5.5000e-004	0.0000	5.7563
Total	3.1540	0.0451	0.0417	7.0000e-005		3.3900e-003	3.3900e-003		3.3900e-003	3.3900e-003	0.0000	5.7448	5.7448	5.5000e-004	0.0000	5.7563

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0700e-003	6.0900e-003	0.0631	1.7000e-004	0.0138	1.1000e-004	0.0139	3.6700e-003	1.0000e-004	3.7700e-003	0.0000	11.9891	11.9891	6.0000e-004	0.0000	12.0017
Total	4.0700e-003	6.0900e-003	0.0631	1.7000e-004	0.0138	1.1000e-004	0.0139	3.6700e-003	1.0000e-004	3.7700e-003	0.0000	11.9891	11.9891	6.0000e-004	0.0000	12.0017

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	0.4595	1.6464	5.9376	0.0182	1.2467	0.0254	1.2721	0.3336	0.0234	0.3570	0.0000	1,321.716 1	1,321.716 1	0.0475	0.0000	1,322.713 1
Unmitigated	0.4595	1.6464	5.9376	0.0182	1.2467	0.0254	1.2721	0.3336	0.0234	0.3570	0.0000	1,321.716 1	1,321.716 1	0.0475	0.0000	1,322.713 1

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Parking Lot	767.41	767.41	767.41	3,288,912	3,288,912
Total	767.41	767.41	767.41	3,288,912	3,288,912

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-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No Parking Lot	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510142	0.059804	0.180842	0.139058	0.042603	0.006701	0.016107	0.033206	0.001939	0.002487	0.004384	0.000580	0.002146

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	440.2902	440.2902	0.0202	4.1900e-003	442.0133
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	440.2902	440.2902	0.0202	4.1900e-003	442.0133
NaturalGas Mitigated	5.1500e-003	0.0468	0.0393	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	50.9523	50.9523	9.8000e-004	9.3000e-004	51.2624
NaturalGas Unmitigated	5.1500e-003	0.0468	0.0393	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	50.9523	50.9523	9.8000e-004	9.3000e-004	51.2624

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unrefrigerated Warehouse-No Rail	954810	5.1500e-003	0.0468	0.0393	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	50.9523	50.9523	9.8000e-004	9.3000e-004	51.2624
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		5.1500e-003	0.0468	0.0393	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	50.9523	50.9523	9.8000e-004	9.3000e-004	51.2624

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
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
Unrefrigerated Warehouse-No Rail	954810	5.1500e-003	0.0468	0.0393	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	50.9523	50.9523	9.8000e-004	9.3000e-004	51.2624
Total		5.1500e-003	0.0468	0.0393	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	50.9523	50.9523	9.8000e-004	9.3000e-004	51.2624

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	191136	54.6968	2.5100e-003	5.2000e-004	54.9109
Unrefrigerated Warehouse-No Rail	1.34744e+006	385.5934	0.0177	3.6700e-003	387.1025
Total		440.2902	0.0202	4.1900e-003	442.0133

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	191136	54.6968	2.5100e-003	5.2000e-004	54.9109
Unrefrigerated Warehouse-No Rail	1.34744e+006	385.5934	0.0177	3.6700e-003	387.1025
Total		440.2902	0.0202	4.1900e-003	442.0133

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	2.9229	1.2000e-004	0.0128	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0246	0.0246	7.0000e-005	0.0000	0.0260
Unmitigated	2.9229	1.2000e-004	0.0128	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0246	0.0246	7.0000e-005	0.0000	0.0260

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	0.5246					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3971					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2100e-003	1.2000e-004	0.0128	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0246	0.0246	7.0000e-005	0.0000	0.0260
Total	2.9229	1.2000e-004	0.0128	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0246	0.0246	7.0000e-005	0.0000	0.0260

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.5246					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3971					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2100e-003	1.2000e-004	0.0128	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0246	0.0246	7.0000e-005	0.0000	0.0260
Total	2.9229	1.2000e-004	0.0128	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0246	0.0246	7.0000e-005	0.0000	0.0260

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	417.1885	3.3791	0.0829	513.8525
Unmitigated	417.1885	3.3797	0.0830	513.9047

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	103.177 / 0	417.1885	3.3797	0.0830	513.9047
Total		417.1885	3.3797	0.0830	513.9047

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	103.177 / 0	417.1885	3.3791	0.0829	513.8525
Total		417.1885	3.3791	0.0829	513.8525

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	42.5672	2.5157	0.0000	95.3959
Unmitigated	85.1344	5.0313	0.0000	190.7917

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Soil	419.4	85.1344	5.0313	0.0000	190.7917
Total		85.1344	5.0313	0.0000	190.7917

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Pail	209.7	42.5672	2.5157	0.0000	95.3959
Total		42.5672	2.5157	0.0000	95.3959

9.0 Operational Offroad

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

LGA Realty Eastvale Industrial Development Project - Mitigated
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	446.17	1000sqft	10.24	446,173.00	0
Parking Lot	543.00	Space	4.89	217,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on site plans

Construction Phase - default phase lengths multiplied by 1.75 to reflect construction schedule June 2016 - December 2018.

Demolition -

Grading - acreage of APN 160-020-033 used for disturbance area

Architectural Coating - Use of low-VOC paint (50 g/L) for nonflat coatings per Mitigation Measure AQ-1

Vehicle Trips - Based on total vehicle trips (passenger and trucks) from traffic study

Area Mitigation - MM AQ-1

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorV alue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorV alue	250	50
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	300.00	525.00
tblConstructionPhase	NumDays	30.00	53.00
tblConstructionPhase	NumDays	20.00	35.00
tblGrading	AcresOfGrading	132.50	23.50
tblLandUse	LandUseSquareFeet	446,170.00	446,173.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblVehicleTrips	ST_TR	2.59	1.72
tblVehicleTrips	SU_TR	2.59	1.72
tblVehicleTrips	WD_TR	2.59	1.72

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.4468	4.0592	3.7197	5.8800e-003	0.4371	0.2064	0.6436	0.1857	0.1917	0.3774	0.0000	513.7243	513.7243	0.0871	0.0000	515.5534
2017	0.6488	4.7895	5.9266	0.0114	0.4852	0.2529	0.7380	0.1306	0.2371	0.3677	0.0000	944.5780	944.5780	0.0971	0.0000	946.6173
2018	1.4801	3.2245	4.1367	8.3600e-003	0.3433	0.1643	0.5075	0.0923	0.1541	0.2464	0.0000	677.1690	677.1690	0.0760	0.0000	678.7640
Total	2.5757	12.0731	13.7830	0.0257	1.2655	0.6236	1.8891	0.4086	0.5828	0.9914	0.0000	2,135.4713	2,135.4713	0.2602	0.0000	2,140.9347

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.4468	4.0592	3.7197	5.8800e-003	0.4371	0.2064	0.6436	0.1857	0.1917	0.3774	0.0000	513.7240	513.7240	0.0871	0.0000	515.5531
2017	0.6488	4.7895	5.9266	0.0114	0.4852	0.2529	0.7380	0.1306	0.2371	0.3677	0.0000	944.5776	944.5776	0.0971	0.0000	946.6169
2018	1.4801	3.2245	4.1367	8.3600e-003	0.3433	0.1643	0.5075	0.0923	0.1541	0.2464	0.0000	677.1687	677.1687	0.0760	0.0000	678.7637
Total	2.5757	12.0731	13.7830	0.0257	1.2655	0.6236	1.8891	0.4086	0.5828	0.9914	0.0000	2,135.4703	2,135.4703	0.2602	0.0000	2,140.9337

	ROG	NOx	CO	SO2	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

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	2.9229	1.2000e-004	0.0128	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0246	0.0246	7.0000e-005	0.0000	0.0260
Energy	5.1500e-003	0.0468	0.0393	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	491.2425	491.2425	0.0212	5.1200e-003	493.2757
Mobile	0.4595	1.6464	5.9376	0.0182	1.2467	0.0254	1.2721	0.3336	0.0234	0.3570	0.0000	1,321.716 1	1,321.716 1	0.0475	0.0000	1,322.713 1
Waste						0.0000	0.0000		0.0000	0.0000	85.1344	0.0000	85.1344	5.0313	0.0000	190.7917
Water						0.0000	0.0000		0.0000	0.0000	32.7332	384.4553	417.1885	3.3797	0.0830	513.9047
Total	3.3875	1.6933	5.9896	0.0184	1.2467	0.0290	1.2757	0.3336	0.0270	0.3606	117.8677	2,197.438 4	2,315.306 1	8.4798	0.0882	2,520.711 1

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.5032	1.2000e-004	0.0128	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0246	0.0246	7.0000e-005	0.0000	0.0260
Energy	5.1500e-003	0.0468	0.0393	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	491.2425	491.2425	0.0212	5.1200e-003	493.2757
Mobile	0.4595	1.6464	5.9376	0.0182	1.2467	0.0254	1.2721	0.3336	0.0234	0.3570	0.0000	1,321.716 1	1,321.716 1	0.0475	0.0000	1,322.713 1
Waste						0.0000	0.0000		0.0000	0.0000	42.5672	0.0000	42.5672	2.5157	0.0000	95.3959
Water						0.0000	0.0000		0.0000	0.0000	32.7332	384.4553	417.1885	3.3791	0.0829	513.8525
Total	2.9678	1.6933	5.9896	0.0184	1.2467	0.0290	1.2757	0.3336	0.0270	0.3606	75.3004	2,197.438 4	2,272.738 8	5.9635	0.0880	2,425.263 0

	ROG	NOx	CO	SO2	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	12.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.11	0.00	1.84	29.67	0.15	3.79

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2016	6/14/2016	5	10	
2	Grading	Grading	6/15/2016	8/26/2016	5	53	
3	Building Construction	Building Construction	8/27/2016	8/31/2018	5	525	
4	Paving	Paving	9/1/2018	10/19/2018	5	35	
5	Architectural Coating	Architectural Coating	10/20/2018	12/21/2018	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 23.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 679,034; Non-Residential Outdoor: 226,345 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	279.00	109.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	56.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.2732	0.2055	2.0000e-004		0.0147	0.0147		0.0135	0.0135	0.0000	18.4386	18.4386	5.5600e-003	0.0000	18.5554
Total	0.0254	0.2732	0.2055	2.0000e-004	0.0903	0.0147	0.1050	0.0497	0.0135	0.0632	0.0000	18.4386	18.4386	5.5600e-003	0.0000	18.5554

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	5.3000e-004	5.5200e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.9251	0.9251	5.0000e-005	0.0000	0.9261
Total	3.6000e-004	5.3000e-004	5.5200e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.9251	0.9251	5.0000e-005	0.0000	0.9261

3.2 Site Preparation - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.2732	0.2055	2.0000e-004		0.0147	0.0147		0.0135	0.0135	0.0000	18.4385	18.4385	5.5600e-003	0.0000	18.5553
Total	0.0254	0.2732	0.2055	2.0000e-004	0.0903	0.0147	0.1050	0.0497	0.0135	0.0632	0.0000	18.4385	18.4385	5.5600e-003	0.0000	18.5553

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	5.3000e-004	5.5200e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.9251	0.9251	5.0000e-005	0.0000	0.9261
Total	3.6000e-004	5.3000e-004	5.5200e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.9251	0.9251	5.0000e-005	0.0000	0.9261

3.3 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1721	0.0000	0.1721	0.0891	0.0000	0.0891	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1717	1.9826	1.3021	1.6400e-003		0.0950	0.0950		0.0874	0.0874	0.0000	154.2187	154.2187	0.0465	0.0000	155.1956
Total	0.1717	1.9826	1.3021	1.6400e-003	0.1721	0.0950	0.2670	0.0891	0.0874	0.1765	0.0000	154.2187	154.2187	0.0465	0.0000	155.1956

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	2.1300e-003	3.1300e-003	0.0325	7.0000e-005	5.8100e-003	5.0000e-005	5.8600e-003	1.5400e-003	5.0000e-005	1.5900e-003	0.0000	5.4477	5.4477	2.9000e-004	0.0000	5.4539
Total	2.1300e-003	3.1300e-003	0.0325	7.0000e-005	5.8100e-003	5.0000e-005	5.8600e-003	1.5400e-003	5.0000e-005	1.5900e-003	0.0000	5.4477	5.4477	2.9000e-004	0.0000	5.4539

3.3 Grading - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1721	0.0000	0.1721	0.0891	0.0000	0.0891	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1717	1.9826	1.3021	1.6400e-003		0.0950	0.0950		0.0874	0.0874	0.0000	154.2185	154.2185	0.0465	0.0000	155.1954
Total	0.1717	1.9826	1.3021	1.6400e-003	0.1721	0.0950	0.2670	0.0891	0.0874	0.1765	0.0000	154.2185	154.2185	0.0465	0.0000	155.1954

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	2.1300e-003	3.1300e-003	0.0325	7.0000e-005	5.8100e-003	5.0000e-005	5.8600e-003	1.5400e-003	5.0000e-005	1.5900e-003	0.0000	5.4477	5.4477	2.9000e-004	0.0000	5.4539
Total	2.1300e-003	3.1300e-003	0.0325	7.0000e-005	5.8100e-003	5.0000e-005	5.8600e-003	1.5400e-003	5.0000e-005	1.5900e-003	0.0000	5.4477	5.4477	2.9000e-004	0.0000	5.4539

3.4 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1533	1.2828	0.8328	1.2100e-003		0.0885	0.0885		0.0832	0.0832	0.0000	108.9691	108.9691	0.0270	0.0000	109.5367
Total	0.1533	1.2828	0.8328	1.2100e-003		0.0885	0.0885		0.0832	0.0832	0.0000	108.9691	108.9691	0.0270	0.0000	109.5367

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0435	0.4429	0.5709	1.0600e-003	0.0302	7.0100e-003	0.0372	8.6100e-003	6.4400e-003	0.0151	0.0000	96.6755	96.6755	7.0000e-004	0.0000	96.6902
Worker	0.0505	0.0741	0.7704	1.6900e-003	0.1377	1.1700e-003	0.1389	0.0366	1.0800e-003	0.0377	0.0000	129.0496	129.0496	6.9500e-003	0.0000	129.1956
Total	0.0940	0.5170	1.3412	2.7500e-003	0.1679	8.1800e-003	0.1761	0.0452	7.5200e-003	0.0527	0.0000	225.7251	225.7251	7.6500e-003	0.0000	225.8858

3.4 Building Construction - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1533	1.2828	0.8328	1.2100e-003		0.0885	0.0885		0.0832	0.0832	0.0000	108.9690	108.9690	0.0270	0.0000	109.5365
Total	0.1533	1.2828	0.8328	1.2100e-003		0.0885	0.0885		0.0832	0.0832	0.0000	108.9690	108.9690	0.0270	0.0000	109.5365

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0435	0.4429	0.5709	1.0600e-003	0.0302	7.0100e-003	0.0372	8.6100e-003	6.4400e-003	0.0151	0.0000	96.6755	96.6755	7.0000e-004	0.0000	96.6902
Worker	0.0505	0.0741	0.7704	1.6900e-003	0.1377	1.1700e-003	0.1389	0.0366	1.0800e-003	0.0377	0.0000	129.0496	129.0496	6.9500e-003	0.0000	129.1956
Total	0.0940	0.5170	1.3412	2.7500e-003	0.1679	8.1800e-003	0.1761	0.0452	7.5200e-003	0.0527	0.0000	225.7251	225.7251	7.6500e-003	0.0000	225.8858

3.4 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4033	3.4327	2.3568	3.4900e-003		0.2316	0.2316		0.2175	0.2175	0.0000	311.3228	311.3228	0.0766	0.0000	312.9319
Total	0.4033	3.4327	2.3568	3.4900e-003		0.2316	0.2316		0.2175	0.2175	0.0000	311.3228	311.3228	0.0766	0.0000	312.9319

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1149	1.1634	1.5628	3.0700e-003	0.0872	0.0181	0.1053	0.0249	0.0166	0.0415	0.0000	274.7588	274.7588	1.9600e-003	0.0000	274.7999
Worker	0.1305	0.1933	2.0070	4.8900e-003	0.3979	3.2600e-003	0.4012	0.1057	3.0100e-003	0.1087	0.0000	358.4964	358.4964	0.0185	0.0000	358.8855
Total	0.2455	1.3567	3.5698	7.9600e-003	0.4852	0.0213	0.5065	0.1306	0.0196	0.1502	0.0000	633.2552	633.2552	0.0205	0.0000	633.6854

3.4 Building Construction - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4033	3.4327	2.3568	3.4900e-003		0.2316	0.2316		0.2175	0.2175	0.0000	311.3225	311.3225	0.0766	0.0000	312.9315
Total	0.4033	3.4327	2.3568	3.4900e-003		0.2316	0.2316		0.2175	0.2175	0.0000	311.3225	311.3225	0.0766	0.0000	312.9315

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1149	1.1634	1.5628	3.0700e-003	0.0872	0.0181	0.1053	0.0249	0.0166	0.0415	0.0000	274.7588	274.7588	1.9600e-003	0.0000	274.7999
Worker	0.1305	0.1933	2.0070	4.8900e-003	0.3979	3.2600e-003	0.4012	0.1057	3.0100e-003	0.1087	0.0000	358.4964	358.4964	0.0185	0.0000	358.8855
Total	0.2455	1.3567	3.5698	7.9600e-003	0.4852	0.0213	0.5065	0.1306	0.0196	0.1502	0.0000	633.2552	633.2552	0.0205	0.0000	633.6854

3.4 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	0.2335	2.0353	1.5341	2.3500e-003		0.1308	0.1308		0.1229	0.1229	0.0000	207.1735	207.1735	0.0507	0.0000	208.2382
Total	0.2335	2.0353	1.5341	2.3500e-003		0.1308	0.1308		0.1229	0.1229	0.0000	207.1735	207.1735	0.0507	0.0000	208.2382

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0723	0.7183	1.0077	2.0600e-003	0.0587	0.0115	0.0702	0.0168	0.0105	0.0273	0.0000	181.8291	181.8291	1.3100e-003	0.0000	181.8567
Worker	0.0789	0.1180	1.2232	3.2900e-003	0.2678	2.1400e-003	0.2700	0.0711	1.9800e-003	0.0731	0.0000	232.2894	232.2894	0.0116	0.0000	232.5325
Total	0.1513	0.8363	2.2309	5.3500e-003	0.3265	0.0136	0.3401	0.0879	0.0125	0.1004	0.0000	414.1186	414.1186	0.0129	0.0000	414.3891

3.4 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2335	2.0353	1.5341	2.3500e-003		0.1308	0.1308		0.1229	0.1229	0.0000	207.1732	207.1732	0.0507	0.0000	208.2379
Total	0.2335	2.0353	1.5341	2.3500e-003		0.1308	0.1308		0.1229	0.1229	0.0000	207.1732	207.1732	0.0507	0.0000	208.2379

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0723	0.7183	1.0077	2.0600e-003	0.0587	0.0115	0.0702	0.0168	0.0105	0.0273	0.0000	181.8291	181.8291	1.3100e-003	0.0000	181.8567
Worker	0.0789	0.1180	1.2232	3.2900e-003	0.2678	2.1400e-003	0.2700	0.0711	1.9800e-003	0.0731	0.0000	232.2894	232.2894	0.0116	0.0000	232.5325
Total	0.1513	0.8363	2.2309	5.3500e-003	0.3265	0.0136	0.3401	0.0879	0.0125	0.1004	0.0000	414.1186	414.1186	0.0129	0.0000	414.3891

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0282	0.3004	0.2537	3.9000e-004		0.0164	0.0164		0.0151	0.0151	0.0000	35.6453	35.6453	0.0111	0.0000	35.8783
Paving	6.4100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0346	0.3004	0.2537	3.9000e-004		0.0164	0.0164		0.0151	0.0151	0.0000	35.6453	35.6453	0.0111	0.0000	35.8783

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5000e-004	1.2700e-003	0.0132	4.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.9000e-004	0.0000	2.4977	2.4977	1.2000e-004	0.0000	2.5004
Total	8.5000e-004	1.2700e-003	0.0132	4.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.9000e-004	0.0000	2.4977	2.4977	1.2000e-004	0.0000	2.5004

3.5 Paving - 2018**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0282	0.3004	0.2537	3.9000e-004		0.0164	0.0164		0.0151	0.0151	0.0000	35.6453	35.6453	0.0111	0.0000	35.8783
Paving	6.4100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0346	0.3004	0.2537	3.9000e-004		0.0164	0.0164		0.0151	0.0151	0.0000	35.6453	35.6453	0.0111	0.0000	35.8783

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5000e-004	1.2700e-003	0.0132	4.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.9000e-004	0.0000	2.4977	2.4977	1.2000e-004	0.0000	2.5004
Total	8.5000e-004	1.2700e-003	0.0132	4.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.9000e-004	0.0000	2.4977	2.4977	1.2000e-004	0.0000	2.5004

3.6 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0491					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.7200e-003	0.0451	0.0417	7.0000e-005		3.3900e-003	3.3900e-003		3.3900e-003	3.3900e-003	0.0000	5.7448	5.7448	5.5000e-004	0.0000	5.7563
Total	1.0558	0.0451	0.0417	7.0000e-005		3.3900e-003	3.3900e-003		3.3900e-003	3.3900e-003	0.0000	5.7448	5.7448	5.5000e-004	0.0000	5.7563

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0700e-003	6.0900e-003	0.0631	1.7000e-004	0.0138	1.1000e-004	0.0139	3.6700e-003	1.0000e-004	3.7700e-003	0.0000	11.9891	11.9891	6.0000e-004	0.0000	12.0017
Total	4.0700e-003	6.0900e-003	0.0631	1.7000e-004	0.0138	1.1000e-004	0.0139	3.6700e-003	1.0000e-004	3.7700e-003	0.0000	11.9891	11.9891	6.0000e-004	0.0000	12.0017

3.6 Architectural Coating - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0491					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.7200e-003	0.0451	0.0417	7.0000e-005		3.3900e-003	3.3900e-003		3.3900e-003	3.3900e-003	0.0000	5.7448	5.7448	5.5000e-004	0.0000	5.7563
Total	1.0558	0.0451	0.0417	7.0000e-005		3.3900e-003	3.3900e-003		3.3900e-003	3.3900e-003	0.0000	5.7448	5.7448	5.5000e-004	0.0000	5.7563

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0700e-003	6.0900e-003	0.0631	1.7000e-004	0.0138	1.1000e-004	0.0139	3.6700e-003	1.0000e-004	3.7700e-003	0.0000	11.9891	11.9891	6.0000e-004	0.0000	12.0017
Total	4.0700e-003	6.0900e-003	0.0631	1.7000e-004	0.0138	1.1000e-004	0.0139	3.6700e-003	1.0000e-004	3.7700e-003	0.0000	11.9891	11.9891	6.0000e-004	0.0000	12.0017

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	0.4595	1.6464	5.9376	0.0182	1.2467	0.0254	1.2721	0.3336	0.0234	0.3570	0.0000	1,321.716 1	1,321.716 1	0.0475	0.0000	1,322.713 1
Unmitigated	0.4595	1.6464	5.9376	0.0182	1.2467	0.0254	1.2721	0.3336	0.0234	0.3570	0.0000	1,321.716 1	1,321.716 1	0.0475	0.0000	1,322.713 1

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	767.41	767.41	767.41	3,288,912	3,288,912
Total	767.41	767.41	767.41	3,288,912	3,288,912

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-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510142	0.059804	0.180842	0.139058	0.042603	0.006701	0.016107	0.033206	0.001939	0.002487	0.004384	0.000580	0.002146

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	440.2902	440.2902	0.0202	4.1900e-003	442.0133
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	440.2902	440.2902	0.0202	4.1900e-003	442.0133
NaturalGas Mitigated	5.1500e-003	0.0468	0.0393	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	50.9523	50.9523	9.8000e-004	9.3000e-004	51.2624
NaturalGas Unmitigated	5.1500e-003	0.0468	0.0393	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	50.9523	50.9523	9.8000e-004	9.3000e-004	51.2624

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unrefrigerated Warehouse-No Rail	954810	5.1500e-003	0.0468	0.0393	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	50.9523	50.9523	9.8000e-004	9.3000e-004	51.2624
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		5.1500e-003	0.0468	0.0393	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	50.9523	50.9523	9.8000e-004	9.3000e-004	51.2624

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
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
Unrefrigerated Warehouse-No Rail	954810	5.1500e-003	0.0468	0.0393	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	50.9523	50.9523	9.8000e-004	9.3000e-004	51.2624
Total		5.1500e-003	0.0468	0.0393	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	50.9523	50.9523	9.8000e-004	9.3000e-004	51.2624

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	191136	54.6968	2.5100e-003	5.2000e-004	54.9109
Unrefrigerated Warehouse-No Rail	1.34744e+006	385.5934	0.0177	3.6700e-003	387.1025
Total		440.2902	0.0202	4.1900e-003	442.0133

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	191136	54.6968	2.5100e-003	5.2000e-004	54.9109
Unrefrigerated Warehouse-No Rail	1.34744e+006	385.5934	0.0177	3.6700e-003	387.1025
Total		440.2902	0.0202	4.1900e-003	442.0133

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.5032	1.2000e-004	0.0128	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0246	0.0246	7.0000e-005	0.0000	0.0260
Unmitigated	2.9229	1.2000e-004	0.0128	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0246	0.0246	7.0000e-005	0.0000	0.0260

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	0.5246					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3971					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2100e-003	1.2000e-004	0.0128	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0246	0.0246	7.0000e-005	0.0000	0.0260
Total	2.9229	1.2000e-004	0.0128	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0246	0.0246	7.0000e-005	0.0000	0.0260

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1049					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3971					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2100e-003	1.2000e-004	0.0128	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0246	0.0246	7.0000e-005	0.0000	0.0260
Total	2.5032	1.2000e-004	0.0128	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0246	0.0246	7.0000e-005	0.0000	0.0260

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	417.1885	3.3791	0.0829	513.8525
Unmitigated	417.1885	3.3797	0.0830	513.9047

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	103.177 / 0	417.1885	3.3797	0.0830	513.9047
Total		417.1885	3.3797	0.0830	513.9047

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	103.177 / 0	417.1885	3.3791	0.0829	513.8525
Total		417.1885	3.3791	0.0829	513.8525

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	42.5672	2.5157	0.0000	95.3959
Unmitigated	85.1344	5.0313	0.0000	190.7917

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Soil	419.4	85.1344	5.0313	0.0000	190.7917
Total		85.1344	5.0313	0.0000	190.7917

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Pail	209.7	42.5672	2.5157	0.0000	95.3959
Total		42.5672	2.5157	0.0000	95.3959

9.0 Operational Offroad

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

Greenhouse Gas Emission Worksheet
N2O Mobile Emissions

Eastvale Industrial Development Project

From URBEMIS 2007 Vehicle Fleet Mix Output:

Annual VMT: 3,288,912

Vehicle Type	Percent Type	CH4 Emission Factor (g/mile)*	CH4 Emission (g/mile)**	N2O Emission Factor (g/mile)*	N2O Emission (g/mile)**
Light Auto	51.0%	0.04	0.0204	0.04	0.0204
Light Truck < 3750 lbs	5.9%	0.05	0.00295	0.06	0.00354
Light Truck 3751-5750 lbs	18.1%	0.05	0.00904	0.06	0.010848
Med Truck 5751-8500 lbs	13.9%	0.12	0.016687	0.2	0.027812
Lite-Heavy Truck 8501-10,000 lbs	4.3%	0.12	0.005112	0.2	0.00852
Lite-Heavy Truck 10,001-14,000 lbs	0.6%	0.09	0.00054	0.125	0.00075
Med-Heavy Truck 14,001-33,000 lbs	1.6%	0.06	0.00096	0.05	0.0008
Heavy-Heavy Truck 33,001-60,000 lbs	3.3%	0.06	0.00198	0.05	0.00165
Other Bus	0.2%	0.06	0.00012	0.05	0.0001
Urban Bus	0.2%	0.06	0.00012	0.05	0.0001
Motorcycle	0.4%	0.09	0.00036	0.01	0.00004
School Bus	0.1%	0.06	0.00003	0.05	0.000025
Motor Home	0.2%	0.09	0.00018	0.125	0.00025
Total	99.7%		0.058479		0.074835

Total Emissions (metric tons) =

Emission Factor by Vehicle Mix (g/mi) x Annual VMT(mi) x 0.000001 metric tons/g

Conversion to Carbon Dioxide Equivalency (CO2e) Units based on Global Warming Potential (GWP)

CH4 21 GWP
 N2O 310 GWP
 1 ton (short, US) = 0.90718474 metric ton

Annual Mobile Emissions:

	Total Emissions	Total CO2e units
N2O Emissions:	0.2461 metric tons N2O	76.30 metric tons CO2e

Project Total:	76.30 metric tons CO2e
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References

* from Table C.4: Methane and Nitrous Oxide Emission Factors for Mobile Sources by Vehicle and Fuel Type (g/mile).

in California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.

Assume Model year 2000-present, gasoline fueled.

** Source: California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.

*** From URBEMIS 2007 results for mobile sources