APPENDIX A:
AIR QUALITY

Tractor Supply Company Project
Analysis Methodology and Assumptions

Phasing of construction components is based of the project description. The following project-specific assumptions and modeling parameters were incorporated into the analysis.

1. Land Use

- CalEEMod's "General Light Industry" land use was selected to estimate the proposed project's construction and operational emissions.

2. Construction Assumptions

- Construction is assumed to begin mid-2014 (June 2014). The CalEEMod default construction phase durations were used in the analysis. Phase durations assumed for project construction are shown in Table 1.

Table 1: Construction Phase Durations

Phase	Duration (working days)
Site Preparation	5
Grading	8
Building Construction	230
Paving	18
Architectural Coating	18
Source: CalEEMod and FirstCarbon Solutions.	

- The CalEEMod default construction equipment list and activity were used in the analysis. The construction equipment lists for the construction phases are shown in
- Table 2. '

Table 2: Construction Equipment Assumptions[C1]

Activity	Equipment	Number	Hours per day	Horse-power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8	255	0.4
	Tractors/Loaders/Backhoes	4	8	97	0.37
Grading	Excavators	1	8	162	0.38
	Graders	1	8	174	0.41
	Rubber Tired Dozers	1	8	255	0.4
	Tractors/Loaders/Backhoes	3	8	97	0.37
Building Construction	Cranes	1	7	226	0.29
	Forklifts	3	8	89	0.20
	Generator Sets	1	8	84	0.74

Activity	Equipment	Number	Hours per day	Horse-power	Load Factor
	Tractors/Loaders/Backhoes	3	7	97	0.37
	Welders	1	8	46	0.45
Paving	Cement and Mortar Mixers	2	6	9	0.56
	Pavers	1	8	125	0.42
	Paving Equipment	2	6	130	0.36
	Rollers	2	6	80	0.38
	Tractors/Loaders/Backhoes	1	8	97	0.37
Architectural Coating	Air Compressors	1	6	78	0.48
Source: CalEEMod and FirstCarbon Solutions 2014.					

2. Localized Significance Threshold Assumptions

- Source Receptor Area zone for Lake Elsinore is 25.
- The closest worker receptor location is located approximately 25 meters southeast of the project site. The closest location of sensitive receptors are residences over 400 meters north of the project site.
- The South Coast Air Quality Management District's (SCAQMD) Mass Rate LST Look-up Table was used to determine the appropriate LST for construction. The acreage of disturbance was determined in accordance with the SCAQMD's recommended methodology, as follows:
  - During grading activities, fugitive dust can be generated from the movement of dirt on the project site. CalEEMod estimates dust from dozers moving dirt around, dust from graders or scrapers leveling the land, and loading or unloading dirt into haul trucks. Each of those activities is calculated differently in CalEEMod based on the number of acres traversed by the grading equipment.

  Only some pieces of equipment generate fugitive dust in CalEEMod. The CalEEMod manual identifies various equipment and the acreage disturbed in an 8-hour day:
- Crawler tractors, graders, and rubber tired dozers: 0.5 acres per 8-hour day
- Scrapers: 1 acre per 8-hour day

Therefore, the following acres are the quantity disturbed per day, per phase, according to the acreage disturbed quantities listed above:

- Site Preparation = 1.5 acres/day
- Grading = 1 acres/day

Therefore, the look-up values for a 1-acre site was used for all construction activities.

3. Operational Assumptions

- Project is assumed to be operational in 2014.
- Daily trip rate for the project is 30.74 trips per thousand square feet per day, for a total trip generation of 585 daily trips.
- Energy Consumption – 2013 Title 24 Standards are 30 percent more efficient than 2008 Title 24 standards for non-residential development.
- Water Consumption – Compliance with 2013 Green Building Standards Mandatory Measures 5.304. Includes low-flow bathroom faucets, low-flow toilets, and water-efficient irrigation systems.
- Waste Reduction – California's Mandatory Commercial Recycling requirement was incorporated as an estimated as 25 percent reduction in waste.

1083.0018 Tractor Supply Company - Construction

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	19.03	1000sqft	0.44	19,031.00	0
Parking Lot	91.00	Space	2.76	36,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	10			**Operational Year**	2014
Utility Company	Riverside Public Utilities				
CO2 Intensity (lb/MWhr)	1325.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Land Use - Construction - 19,031 square feet tractor supply building and 91 parking stalls. Total Lot size 3.2 acres.

Vehicle Trips - Daily trip rate according to Trames Solutions Inc.`

Construction Off-road Equipment Mitigation - Compiance with Rule 403

Grading - 10,100 square feet of basin, assumed depth of 4 feet, for a total of 1,496 cubic yards for soils export.

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialExported	0.00	1,496.00
tblLandUse	LandUseSquareFeet	19,030.00	19,031.00
tblLandUse	LotAcreage	0.82	2.76

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	5.3860	57.7473	44.2895	0.0490	7.2470	3.1396	10.3867	3.9263	2.8884	6.8148	0.0000	5,114.8590	5,114.8590	1.2412	0.0000	5,140.9232
2015	26.3393	31.0791	21.4263	0.0318	0.3133	2.1346	2.4479	0.0842	2.0068	2.0910	0.0000	3,152.1343	3,152.1343	0.6917	0.0000	3,166.6594
Total	**31.7253**	**88.8264**	**65.7158**	**0.0809**	**7.5604**	**5.2742**	**12.8346**	**4.0105**	**4.8952**	**8.9057**	**0.0000**	**8,266.9933**	**8,266.9933**	**1.9328**	**0.0000**	**8,307.5825**

2.2 Overall Operational

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	6/1/2014	6/6/2014	5	5	
2	Grading	Grading	6/7/2014	6/18/2014	5	8	
3	Building Construction	Building Construction	6/19/2014	5/6/2015	5	230	
4	Paving	Paving	5/7/2015	6/1/2015	5	18	
5	Architectural Coating	Architectural Coating	6/2/2015	6/25/2015	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 30,185; Non-Residential Outdoor: 10,062 (Architectural Coating –

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	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	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	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	187.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	23.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	5.2910	57.6198	42.9609	0.0391		3.1377	3.1377		2.8867	2.8867	0.0000	4,155.8914	4,155.8914	1.2281		4,181.6817
Total	**5.2910**	**57.6198**	**42.9609**	**0.0391**	**7.0458**	**3.1377**	**10.1836**	**3.8730**	**2.8867**	**6.7597**	**0.0000**	**4,155.8914**	**4,155.8914**	**1.2281**		**4,181.6817**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0950	0.1275	1.3287	2.3900e-003	0.2012	1.9000e-003	0.2031	0.0534	1.7300e-003	0.0551		214.9555	214.9555	0.0130		215.2294
Total	**0.0950**	**0.1275**	**1.3287**	**2.3900e-003**	**0.2012**	**1.9000e-003**	**0.2031**	**0.0534**	**1.7300e-003**	**0.0551**		**214.9555**	**214.9555**	**0.0130**		**215.2294**

3.3 Grading - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5637	0.0000	2.5637	1.3146	0.0000	1.3146			0.0000			0.0000
Off-Road	3.8669	41.0997	26.7538	0.0298		2.3714	2.3714		2.1817	2.1817	0.0000	3,162.4266	3,162.4266	0.9345		3,182.0518
Total	**3.8669**	**41.0997**	**26.7538**	**0.0298**	**2.5637**	**2.3714**	**4.9351**	**1.3146**	**2.1817**	**3.4963**	**0.0000**	**3,162.4266**	**3,162.4266**	**0.9345**		**3,182.0518**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5476	8.5842	6.0149	0.0173	0.4072	0.1630	0.5702	0.1115	0.1499	0.2614		1,773.3027	1,773.3027	0.0153		1,773.6245
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0792	0.1063	1.1072	1.9900e-003	0.1677	1.5800e-003	0.1693	0.0445	1.4400e-003	0.0459		179.1296	179.1296	0.0109		179.3578
Total	**0.6268**	**8.6904**	**7.1221**	**0.0193**	**0.5749**	**0.1645**	**0.7394**	**0.1560**	**0.1513**	**0.3073**		**1,952.4323**	**1,952.4323**	**0.0262**		**1,952.9823**

3.4 Building Construction - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.8680	31.2537	18.9298	0.0268		2.2280	2.2280		2.0973	2.0973	0.0000	2,709.1969	2,709.1969	0.6889		2,723.6630
Total	**3.8680**	**31.2537**	**18.9298**	**0.0268**		**2.2280**	**2.2280**		**2.0973**	**2.0973**	**0.0000**	**2,709.1969**	**2,709.1969**	**0.6889**		**2,723.6630**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1082	1.0359	1.2607	1.9500e-003	0.0562	0.0203	0.0765	0.0160	0.0186	0.0347		198.9724	198.9724	1.8100e-003		199.0104
Worker	0.1214	0.1629	1.6977	3.0500e-003	0.2571	2.4200e-003	0.2595	0.0682	2.2200e-003	0.0704		274.6654	274.6654	0.0167		275.0153
Total	**0.2297**	**1.1988**	**2.9585**	**5.0000e-003**	**0.3133**	**0.0227**	**0.3360**	**0.0842**	**0.0209**	**0.1051**		**473.6378**	**473.6378**	**0.0185**		**474.0257**

3.4 Building Construction - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904	0.0000	2,689.5771	2,689.5771	0.6748		2,703.7483
Total	**3.6591**	**30.0299**	**18.7446**	**0.0268**		**2.1167**	**2.1167**		**1.9904**	**1.9904**	**0.0000**	**2,689.5771**	**2,689.5771**	**0.6748**		**2,703.7483**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0931	0.9029	1.1554	1.9500e-003	0.0562	0.0156	0.0718	0.0160	0.0143	0.0303		196.7552	196.7552	1.5900e-003		196.7887
Worker	0.1089	0.1462	1.5263	3.0500e-003	0.2571	2.2600e-003	0.2594	0.0682	2.0700e-003	0.0703		265.8020	265.8020	0.0153		266.1224
Total	**0.2020**	**1.0492**	**2.6817**	**5.0000e-003**	**0.3133**	**0.0178**	**0.3312**	**0.0842**	**0.0164**	**0.1006**		**462.5572**	**462.5572**	**0.0169**		**462.9111**

3.5 Paving - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9601	20.3064	12.6794	0.0186		1.2241	1.2241		1.1280	1.1280	0.0000	1,921.3090	1,921.3090	0.5588		1,933.0446
Paving	0.4017					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.3618**	**20.3064**	**12.6794**	**0.0186**		**1.2241**	**1.2241**		**1.1280**	**1.1280**	**0.0000**	**1,921.3090**	**1,921.3090**	**0.5588**		**1,933.0446**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0947	0.1271	1.3272	2.6600e-003	0.2236	1.9700e-003	0.2255	0.0593	1.8000e-003	0.0611		231.1322	231.1322	0.0133		231.4108
Total	**0.0947**	**0.1271**	**1.3272**	**2.6600e-003**	**0.2236**	**1.9700e-003**	**0.2255**	**0.0593**	**1.8000e-003**	**0.0611**		**231.1322**	**231.1322**	**0.0133**		**231.4108**

3.6 Architectural Coating - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	25.9090					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209	0.0000	281.4481	281.4481	0.0367		282.2177
Total	**26.3156**	**2.5703**	**1.9018**	**2.9700e-003**		**0.2209**	**0.2209**		**0.2209**	**0.2209**	**0.0000**	**281.4481**	**281.4481**	**0.0367**		**282.2177**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0237	0.0318	0.3318	6.6000e-004	0.0559	4.9000e-004	0.0564	0.0148	4.5000e-004	0.0153		57.7831	57.7831	3.3200e-003		57.8527
Total	**0.0237**	**0.0318**	**0.3318**	**6.6000e-004**	**0.0559**	**4.9000e-004**	**0.0564**	**0.0148**	**4.5000e-004**	**0.0153**		**57.7831**	**57.7831**	**3.3200e-003**		**57.8527**

1083.0018 Tractor Supply Company - Operational 2014

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	19.00	1000sqft	3.20	19,031.00	0
Parking Lot	91.00	Space	0.82	36,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	10			**Operational Year**	2014
Utility Company	Riverside Public Utilities				
CO2 Intensity (lb/MWhr)	1325.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Vehicle Trips - 30.74 Daily trip rate according to Trames Solutions Inc.`

Energy Mitigation - 2013 Title 24 Standards are 30% more efficient than 2008 Title 24 Standards for non-residential development.

Water Mitigation - Compliance with 2013 Green Building Standards Mandatory Measures Section 5.304

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	19,000.00	19,031.00
tblLandUse	LotAcreage	0.44	3.20
tblVehicleTrips	ST_TR	1.32	30.74
tblVehicleTrips	SU_TR	0.68	30.74
tblVehicleTrips	WD_TR	6.97	30.74

2.0 Emissions Summary

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2265	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0241	0.0241	7.0000e-005		0.0256
Energy	0.0160	0.1454	0.1221	8.7000e-004		0.0111	0.0111		0.0111	0.0111		174.4657	174.4657	3.3400e-003	3.2000e-003	175.5274
Mobile	2.9524	9.7564	39.2911	0.0809	5.4814	0.1593	5.6407	1.4642	0.1463	1.6105		7,496.4467	7,496.4467	0.3273		7,503.3205
Total	**4.1949**	**9.9019**	**39.4249**	**0.0817**	**5.4814**	**0.1704**	**5.6518**	**1.4642**	**0.1574**	**1.6216**		**7,670.9364**	**7,670.9364**	**0.3307**	**3.2000e-003**	**7,678.8735**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.9524	9.7564	39.2911	0.0809	5.4814	0.1593	5.6407	1.4642	0.1463	1.6105		7,496.4467	7,496.4467	0.3273		7,503.3205
Unmitigated	2.9524	9.7564	39.2911	0.0809	5.4814	0.1593	5.6407	1.4642	0.1463	1.6105		7,496.4467	7,496.4467	0.3273		7,503.3205

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	584.06	584.06	584.06	2,586,380	2,586,380
Parking Lot	0.00	0.00	0.00		
Total	584.06	584.06	584.06	2,586,380	2,586,380

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
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
0.515683	0.060583	0.179994	0.140474	0.041721	0.006653	0.015053	0.028382	0.001919	0.002521	0.004323	0.000600	0.002094

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0160	0.1454	0.1221	8.7000e-004		0.0111	0.0111		0.0111	0.0111		174.4657	174.4657	3.3400e-003	3.2000e-003	175.5274
NaturalGas Unmitigated	0.0187	0.1702	0.1429	1.0200e-003		0.0129	0.0129		0.0129	0.0129		204.2037	204.2037	3.9100e-003	3.7400e-003	205.4465

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	1.48296	0.0160	0.1454	0.1221	8.7000e-004		0.0111	0.0111		0.0111	0.0111		174.4657	174.4657	3.3400e-003	3.2000e-003	175.5274
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
Total		**0.0160**	**0.1454**	**0.1221**	**8.7000e-004**		**0.0111**	**0.0111**		**0.0111**	**0.0111**		**174.4657**	**174.4657**	**3.3400e-003**	**3.2000e-003**	**175.5274**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2265	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0241	0.0241	7.0000e-005		0.0256
Unmitigated	1.2265	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0241	0.0241	7.0000e-005		0.0256

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1278					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0975					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1900e-003	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0241	0.0241	7.0000e-005		0.0256
Total	**1.2265**	**1.1000e-004**	**0.0117**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**		**0.0241**	**0.0241**	**7.0000e-005**		**0.0256**

1083.0018 Tractor Supply Company - Construction

South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	19.03	1000sqft	0.44	19,031.00	0
Parking Lot	91.00	Space	2.76	36,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	10			**Operational Year**	2014
Utility Company	Riverside Public Utilities				
CO2 Intensity (lb/MWhr)	1325.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Land Use - Construction - 19,031 square feet tractor supply building and 91 parking stalls. Total Lot size 3.2 acres.

Vehicle Trips - Daily trip rate according to Trames Solutions Inc.`

Construction Off-road Equipment Mitigation - Compiance with Rule 403

Grading - 10,100 square feet of basin, assumed depth of 4 feet, for a total of 1,496 cubic yards for soils export.

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialExported	0.00	1,496.00
tblLandUse	LandUseSquareFeet	19,030.00	19,031.00
tblLandUse	LotAcreage	0.82	2.76

2.0 Emissions Summary

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2014	0.3175	2.6176	1.7790	2.5300e-003	0.0522	0.1755	0.2277	0.0215	0.1648	0.1863	0.0000	230.9504	230.9504	0.0512	0.0000	232.0259
2015	0.4325	1.6069	1.1111	1.6600e-003	0.0163	0.1091	0.1254	4.3800e-003	0.1025	0.1068	0.0000	149.2683	149.2683	0.0332	0.0000	149.9661
Total	**0.7500**	**4.2245**	**2.8901**	**4.1900e-003**	**0.0685**	**0.2846**	**0.3531**	**0.0259**	**0.2673**	**0.2931**	**0.0000**	**380.2186**	**380.2186**	**0.0845**	**0.0000**	**381.9921**

2.2 Overall Operational

Not Applicable

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	6/1/2014	6/6/2014	5	5	
2	Grading	Grading	6/7/2014	6/18/2014	5	8	
3	Building Construction	Building Construction	6/19/2014	5/6/2015	5	230	
4	Paving	Paving	5/7/2015	6/1/2015	5	18	
5	Architectural Coating	Architectural Coating	6/2/2015	6/25/2015	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 30,185; Non-Residential Outdoor: 10,062 (Architectural Coating –

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	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	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	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42

Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	187.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	23.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0176	0.0000	0.0176	9.6800e-003	0.0000	9.6800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0132	0.1441	0.1074	1.0000e-004		7.8400e-003	7.8400e-003		7.2200e-003	7.2200e-003	0.0000	9.4254	9.4254	2.7900e-003	0.0000	9.4839
Total	**0.0132**	**0.1441**	**0.1074**	**1.0000e-004**	**0.0176**	**7.8400e-003**	**0.0255**	**9.6800e-003**	**7.2200e-003**	**0.0169**	**0.0000**	**9.4254**	**9.4254**	**2.7900e-003**	**0.0000**	**9.4839**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	3.3000e-004	3.4000e-003	1.0000e-005	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4951	0.4951	3.0000e-005	0.0000	0.4957
Total	**2.2000e-004**	**3.3000e-004**	**3.4000e-003**	**1.0000e-005**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.4951**	**0.4951**	**3.0000e-005**	**0.0000**	**0.4957**

3.3 Grading - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0103	0.0000	0.0103	5.2600e-003	0.0000	5.2600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.1644	0.1070	1.2000e-004		9.4900e-003	9.4900e-003		8.7300e-003	8.7300e-003	0.0000	11.4756	11.4756	3.3900e-003	0.0000	11.5468
Total	**0.0155**	**0.1644**	**0.1070**	**1.2000e-004**	**0.0103**	**9.4900e-003**	**0.0197**	**5.2600e-003**	**8.7300e-003**	**0.0140**	**0.0000**	**11.4756**	**11.4756**	**3.3900e-003**	**0.0000**	**11.5468**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1500e-003	0.0349	0.0237	7.0000e-005	1.6000e-003	6.5000e-004	2.2500e-003	4.4000e-004	6.0000e-004	1.0400e-003	0.0000	6.4437	6.4437	6.0000e-005	0.0000	6.4449
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	3.0000e-004	4.4000e-004	4.5300e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6601	0.6601	4.0000e-005	0.0000	0.6609
Total	**2.4500e-003**	**0.0354**	**0.0282**	**8.0000e-005**	**2.2600e-003**	**6.6000e-004**	**2.9100e-003**	**6.1000e-004**	**6.1000e-004**	**1.2200e-003**	**0.0000**	**7.1038**	**7.1038**	**1.0000e-004**	**0.0000**	**7.1058**

3.4 Building Construction - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2708	2.1878	1.3251	1.8800e-003		0.1560	0.1560		0.1468	0.1468	0.0000	172.0417	172.0417	0.0437	0.0000	172.9604
Total	**0.2708**	**2.1878**	**1.3251**	**1.8800e-003**		**0.1560**	**0.1560**		**0.1468**	**0.1468**	**0.0000**	**172.0417**	**172.0417**	**0.0437**	**0.0000**	**172.9604**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.3500e-003	0.0739	0.0862	1.4000e-004	3.8700e-003	1.4100e-003	5.2800e-003	1.1100e-003	1.3000e-003	2.4000e-003	0.0000	12.6965	12.6965	1.1000e-004	0.0000	12.6989
Worker	8.0300e-003	0.0117	0.1216	2.2000e-004	0.0177	1.7000e-004	0.0178	4.6900e-003	1.6000e-004	4.8500e-003	0.0000	17.7123	17.7123	1.0600e-003	0.0000	17.7345
Total	**0.0154**	**0.0857**	**0.2079**	**3.6000e-004**	**0.0215**	**1.5800e-003**	**0.0231**	**5.8000e-003**	**1.4600e-003**	**7.2500e-003**	**0.0000**	**30.4088**	**30.4088**	**1.1700e-003**	**0.0000**	**30.4334**

3.4 Building Construction - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1647	1.3514	0.8435	1.2100e-003		0.0953	0.0953		0.0896	0.0896	0.0000	109.7973	109.7973	0.0276	0.0000	110.3758
Total	**0.1647**	**1.3514**	**0.8435**	**1.2100e-003**		**0.0953**	**0.0953**		**0.0896**	**0.0896**	**0.0000**	**109.7973**	**109.7973**	**0.0276**	**0.0000**	**110.3758**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0700e-003	0.0414	0.0507	9.0000e-005	2.4900e-003	7.0000e-004	3.1900e-003	7.1000e-004	6.4000e-004	1.3500e-003	0.0000	8.0714	8.0714	6.0000e-005	0.0000	8.0728
Worker	4.6200e-003	6.7800e-003	0.0703	1.4000e-004	0.0114	1.0000e-004	0.0115	3.0200e-003	9.0000e-005	3.1100e-003	0.0000	11.0193	11.0193	6.2000e-004	0.0000	11.0324
Total	**8.6900e-003**	**0.0482**	**0.1210**	**2.3000e-004**	**0.0139**	**8.0000e-004**	**0.0147**	**3.7300e-003**	**7.3000e-004**	**4.4600e-003**	**0.0000**	**19.0907**	**19.0907**	**6.8000e-004**	**0.0000**	**19.1051**

3.5 Paving - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0176	0.1828	0.1141	1.7000e-004		0.0110	0.0110		0.0102	0.0102	0.0000	15.6868	15.6868	4.5600e-003	0.0000	15.7826
Paving	3.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0213**	**0.1828**	**0.1141**	**1.7000e-004**		**0.0110**	**0.0110**		**0.0102**	**0.0102**	**0.0000**	**15.6868**	**15.6868**	**4.5600e-003**	**0.0000**	**15.7826**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-004	1.1800e-003	0.0122	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.9164	1.9164	1.1000e-004	0.0000	1.9187
Total	**8.0000e-004**	**1.1800e-003**	**0.0122**	**2.0000e-005**	**1.9700e-003**	**2.0000e-005**	**1.9900e-003**	**5.2000e-004**	**2.0000e-005**	**5.4000e-004**	**0.0000**	**1.9164**	**1.9164**	**1.1000e-004**	**0.0000**	**1.9187**

3.6 Architectural Coating - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2332					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6600e-003	0.0231	0.0171	3.0000e-005		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	2.2979	2.2979	3.0000e-004	0.0000	2.3042
Total	**0.2368**	**0.0231**	**0.0171**	**3.0000e-005**		**1.9900e-003**	**1.9900e-003**		**1.9900e-003**	**1.9900e-003**	**0.0000**	**2.2979**	**2.2979**	**3.0000e-004**	**0.0000**	**2.3042**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	2.0000e-004	2.9000e-004	3.0600e-003	1.0000e-005	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4791	0.4791	3.0000e-005	0.0000	0.4797
Total	**2.0000e-004**	**2.9000e-004**	**3.0600e-003**	**1.0000e-005**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.4791**	**0.4791**	**3.0000e-005**	**0.0000**	**0.4797**

1083.0018 Tractor Supply Company - Operational 2014

South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	19.00	1000sqft	3.20	19,031.00	0
Parking Lot	91.00	Space	0.82	36,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	10			**Operational Year**	2014
Utility Company	Riverside Public Utilities				
CO2 Intensity (lb/MWhr)	1325.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Vehicle Trips - 30.74 Daily trip rate according to Trames Solutions Inc.`

Energy Mitigation - 2013 Title 24 Standards are 30% more efficient than 2008 Title 24 Standards for non-residential development.

Water Mitigation - Compliance with 2013 Green Building Standards Mandatory Measures Section 5.304

Waste Mitigation - Mandatory Commercial Reycling requirement. Est. 25 percent reduction in waste.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	19,000.00	19,031.00
tblLandUse	LotAcreage	0.44	3.20
tblVehicleTrips	ST_TR	1.32	30.74
tblVehicleTrips	SU_TR	0.68	30.74
tblVehicleTrips	WD_TR	6.97	30.74

2.0 Emissions Summary

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2238	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.7300e-003	2.7300e-003	1.0000e-005	0.0000	2.9000e-003
Energy	2.9200e-003	0.0265	0.0223	1.6000e-004		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	165.5897	165.5897	3.5400e-003	1.1500e-003	166.0201
Mobile	0.5296	1.9102	6.9823	0.0141	0.9795	0.0290	1.0085	0.2620	0.0266	0.2887	0.0000	1,189.9118	1,189.9118	0.0540	0.0000	1,191.0456
Waste						0.0000	0.0000		0.0000	0.0000	3.5869	0.0000	3.5869	0.2120	0.0000	8.0384
Water						0.0000	0.0000		0.0000	0.0000	1.2216	30.1493	31.3709	0.1261	3.0900e-003	34.9785
Total	**0.7563**	**1.9367**	**7.0061**	**0.0143**	**0.9795**	**0.0311**	**1.0105**	**0.2620**	**0.0287**	**0.2907**	**4.8085**	**1,385.6534**	**1,390.4619**	**0.3956**	**4.2400e-003**	**1,400.0854**

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	0.5296	1.9102	6.9823	0.0141	0.9795	0.0290	1.0085	0.2620	0.0266	0.2887	0.0000	1,189.9118	1,189.9118	0.0540	0.0000	1,191.0456
Unmitigated	0.5296	1.9102	6.9823	0.0141	0.9795	0.0290	1.0085	0.2620	0.0266	0.2887	0.0000	1,189.9118	1,189.9118	0.0540	0.0000	1,191.0456

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	584.06	584.06	584.06	2,586,380	2,586,380
Parking Lot	0.00	0.00	0.00		
Total	584.06	584.06	584.06	2,586,380	2,586,380

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
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
0.515683	0.060583	0.179994	0.140474	0.041721	0.006653	0.015053	0.028382	0.001919	0.002521	0.004323	0.000600	0.002094

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	136.7049	136.7049	2.9900e-003	6.2000e-004	136.9595
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	145.9398	145.9398	3.1900e-003	6.6000e-004	146.2116
NaturalGas Mitigated	2.9200e-003	0.0265	0.0223	1.6000e-004		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	28.8848	28.8848	5.5000e-004	5.3000e-004	29.0605
NaturalGas Unmitigated	3.4200e-003	0.0311	0.0261	1.9000e-004		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	33.8082	33.8082	6.5000e-004	6.2000e-004	34.0140

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	541280	2.9200e-003	0.0265	0.0223	1.6000e-004		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	28.8848	28.8848	5.5000e-004	5.3000e-004	29.0605
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		**2.9200e-003**	**0.0265**	**0.0223**	**1.6000e-004**		**2.0200e-003**	**2.0200e-003**		**2.0200e-003**	**2.0200e-003**	**0.0000**	**28.8848**	**28.8848**	**5.5000e-004**	**5.3000e-004**	**29.0605**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	195315	117.4439	2.5700e-003	5.3000e-004	117.6627
Parking Lot	32032	19.2610	4.2000e-004	9.0000e-005	19.2969
Total		**136.7049**	**2.9900e-003**	**6.2000e-004**	**136.9595**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2238	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.7300e-003	2.7300e-003	1.0000e-005	0.0000	2.9000e-003
Unmitigated	0.2238	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.7300e-003	2.7300e-003	1.0000e-005	0.0000	2.9000e-003

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0233					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.5000e-004	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.7300e-003	2.7300e-003	1.0000e-005	0.0000	2.9000e-003
Total	**0.2238**	**1.0000e-005**	**1.4700e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**2.7300e-003**	**2.7300e-003**	**1.0000e-005**	**0.0000**	**2.9000e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Toilet

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	31.3709	0.1261	3.0900e-003	34.9785
Unmitigated	35.7952	0.1439	3.5400e-003	39.9138

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	3.85068 / 0	31.3709	0.1261	3.0900e-003	34.9785
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**31.3709**	**0.1261**	**3.0900e-003**	**34.9785**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.5869	0.2120	0.0000	8.0384
Unmitigated	4.7825	0.2826	0.0000	10.7178

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	17.67	3.5869	0.2120	0.0000	8.0384
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**3.5869**	**0.2120**	**0.0000**	**8.0384**

1083.0018 Tractor Supply Company - Operational 2005

South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	19.00	1000sqft	3.20	19,031.00	0
Parking Lot	91.00	Space	0.82	36,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	10			**Operational Year**	2005
Utility Company	Riverside Public Utilities				
CO2 Intensity (lb/MWhr)	1325.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Vehicle Trips - 30.74 Daily trip rate according to Trames Solutions Inc.`

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	19,000.00	19,031.00
tblLandUse	LotAcreage	0.44	3.20
tblProjectCharacteristics	OperationalYear	2014	2005
tblVehicleTrips	ST_TR	1.32	30.74
tblVehicleTrips	SU_TR	0.68	30.74
tblVehicleTrips	WD_TR	6.97	30.74

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	2.7300e-003	2.7300e-003	1.0000e-005	0.0000	3.0000e-003
Energy											0.0000	179.7480	179.7480	3.8400e-003	1.2800e-003	180.2255
Mobile											0.0000	1,380.0531	1,380.0531	0.1230	0.0000	1,382.6350
Waste											4.7825	0.0000	4.7825	0.2826	0.0000	10.7178
Water											1.3939	34.4013	35.7952	0.1439	3.5400e-003	39.9138
Total											**6.1764**	**1,594.2051**	**1,600.3815**	**0.5534**	**4.8200e-003**	**1,613.4952**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Unmitigated											0.0000	1,380.0531	1,380.0531	0.1230	0.0000	1,382.6350
Mitigated											0.0000	1,380.0531	1,380.0531	0.1230	0.0000	1,382.6350

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	584.06	584.06	584.06	2,586,380	2,586,380
Parking Lot	0.00	0.00	0.00		
Total	584.06	584.06	584.06	2,586,380	2,586,380

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
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
0.496971	0.077016	0.230574	0.109445	0.022814	0.006783	0.016251	0.028709	0.001148	0.001542	0.005623	0.000802	0.002322

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
NaturalGas Mitigated											0.0000	28.8848	28.8848	5.5000e-004	5.3000e-004	29.0605
NaturalGas Unmitigated											0.0000	33.8082	33.8082	6.5000e-004	6.2000e-004	34.0140
Electricity Mitigated											0.0000	136.7049	136.7049	2.9900e-003	6.2000e-004	136.9595
Electricity Unmitigated											0.0000	145.9398	145.9398	3.1900e-003	6.6000e-004	146.2116

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	633542											0.0000	33.8082	33.8082	6.5000e-004	6.2000e-004	34.0140
Parking Lot	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total												**0.0000**	**33.8082**	**33.8082**	**6.5000e-004**	**6.2000e-004**	**34.0140**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	210673	126.6788	2.7700e-003	5.7000e-004	126.9147
Parking Lot	32032	19.2610	4.2000e-004	9.0000e-005	19.2969
Total		**145.9398**	**3.1900e-003**	**6.6000e-004**	**146.2116**

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					
Unmitigated											0.0000	2.7300e-003	2.7300e-003	1.0000e-005	0.0000	3.0000e-003
Mitigated											0.0000	2.7300e-003	2.7300e-003	1.0000e-005	0.0000	3.0000e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	2.7300e-003	2.7300e-003	1.0000e-005	0.0000	3.0000e-003
Total											**0.0000**	**2.7300e-003**	**2.7300e-003**	**1.0000e-005**	**0.0000**	**3.0000e-003**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.7825	0.2826	0.0000	10.7178
Unmitigated	4.7825	0.2826	0.0000	10.7178

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	23.56	4.7825	0.2826	0.0000	10.7178
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**4.7825**	**0.2826**	**0.0000**	**10.7178**

1083.0018 Tractor Supply Company - Operational 2020

South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	19.00	1000sqft	3.20	19,031.00	0
Parking Lot	91.00	Space	0.82	36,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	10			**Operational Year**	2020
Utility Company	Riverside Public Utilities				
CO2 Intensity (lb/MWhr)	1325.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Vehicle Trips - 30.74 Daily trip rate according to Trames Solutions Inc.`

Construction Off-road Equipment Mitigation -

Energy Mitigation - 2013 Title 24 Standards are 30% more efficient than 2008 Title 24 Standards for non-residential development.

Water Mitigation - Compliance with 2013 Green Building Standards Mandatory Measures Section 5.304

Waste Mitigation - Mandatory Commercial Reycling requirement. Est. 25 percent reduction in waste.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	19,000.00	19,031.00
tblLandUse	LotAcreage	0.44	3.20
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	ST_TR	1.32	30.74
tblVehicleTrips	SU_TR	0.68	30.74
tblVehicleTrips	WD_TR	6.97	30.74

2.0 Emissions Summary

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	2.7300e-003	2.7300e-003	1.0000e-005	0.0000	2.8800e-003
Energy											0.0000	165.5897	165.5897	3.5400e-003	1.1500e-003	166.0201
Mobile											0.0000	1,003.7609	1,003.7609	0.0353	0.0000	1,004.5030
Waste											3.5869	0.0000	3.5869	0.2120	0.0000	8.0384
Water											1.2216	30.1493	31.3709	0.1261	3.0900e-003	34.9785
Total											**4.8085**	**1,199.5025**	**1,204.3110**	**0.3770**	**4.2400e-003**	**1,213.5429**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated											0.0000	1,003.7609	1,003.7609	0.0353	0.0000	1,004.5030
Unmitigated											0.0000	1,003.7609	1,003.7609	0.0353	0.0000	1,004.5030

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	584.06	584.06	584.06	2,586,380	2,586,380
Parking Lot	0.00	0.00	0.00		
Total	584.06	584.06	584.06	2,586,380	2,586,380

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
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
0.509128	0.059640	0.181069	0.139276	0.042833	0.006726	0.016156	0.033615	0.001941	0.002483	0.004400	0.000574	0.002159

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated											0.0000	136.7049	136.7049	2.9900e-003	6.2000e-004	136.9595
Electricity Unmitigated											0.0000	145.9398	145.9398	3.1900e-003	6.6000e-004	146.2116
NaturalGas Mitigated											0.0000	28.8848	28.8848	5.5000e-004	5.3000e-004	29.0605
NaturalGas Unmitigated											0.0000	33.8082	33.8082	6.5000e-004	6.2000e-004	34.0140

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	541280											0.0000	28.8848	28.8848	5.5000e-004	5.3000e-004	29.0605
Parking Lot	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total												**0.0000**	**28.8848**	**28.8848**	**5.5000e-004**	**5.3000e-004**	**29.0605**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	195315	117.4439	2.5700e-003	5.3000e-004	117.6627
Parking Lot	32032	19.2610	4.2000e-004	9.0000e-005	19.2969
Total		**136.7049**	**2.9900e-003**	**6.2000e-004**	**136.9595**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated											0.0000	2.7300e-003	2.7300e-003	1.0000e-005	0.0000	2.8800e-003
Unmitigated											0.0000	2.7300e-003	2.7300e-003	1.0000e-005	0.0000	2.8800e-003

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	2.7300e-003	2.7300e-003	1.0000e-005	0.0000	2.8800e-003
Total											**0.0000**	**2.7300e-003**	**2.7300e-003**	**1.0000e-005**	**0.0000**	**2.8800e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Toilet

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	31.3709	0.1261	3.0900e-003	34.9785
Unmitigated	35.7952	0.1439	3.5400e-003	39.9138

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	3.85068 / 0	31.3709	0.1261	3.0900e-003	34.9785
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**31.3709**	**0.1261**	**3.0900e-003**	**34.9785**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.5869	0.2120	0.0000	8.0384
Unmitigated	4.7825	0.2826	0.0000	10.7178

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	17.67	3.5869	0.2120	0.0000	8.0384
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**3.5869**	**0.2120**	**0.0000**	**8.0384**

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Intersection 1 Collier Ave at Enterprise
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 390. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 2.9 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NB External	*	7	0	7	600	* AG	1225	3.4	.0	10.3
B. NB Approach	*	7	600	7	751	* AG	1210	4.1	.0	10.3
C. NB Depart	*	7	751	7	903	* AG	1213	4.1	.0	10.3
D. NB External	*	7	903	7	1503	* AG	1213	3.4	.0	10.3
E. NB Left	*	7	600	4	751	* AG	15	4.1	.0	10.3
F. SB Left	*	0	903	4	751	* AG	0	4.1	.0	10.3
G. SB External	*	0	1503	0	903	* AG	1095	3.4	.0	10.3
H. SB Approach	*	0	903	0	751	* AG	1095	4.1	.0	10.3
I. SB Depart	*	0	751	0	600	* AG	1111	4.1	.0	10.3
J. SB External	*	0	600	0	0	* AG	1111	3.4	.0	10.3
K. EB External	*	-750	750	-150	750	* AG	20	3.4	.0	10.0
L. EB Approach	*	-150	750	4	750	* AG	17	4.1	.0	10.0
M. EB Depart	*	4	750	157	750	* AG	0	4.1	.0	10.0
N. EB External	*	157	750	757	750	* AG	0	3.4	.0	10.0
O. WB External	*	757	753	157	753	* AG	0	3.4	.0	10.0
P. WB Approach	*	157	753	4	753	* AG	0	4.1	.0	10.0
Q. WB Depart	*	4	753	-150	753	* AG	16	4.1	.0	10.0
R. WB External	*	-150	753	-750	753	* AG	16	3.4	.0	10.0
S. EB Left	*	-150	750	4	751	* AG	3	4.1	.0	10.0
T. WB Left	*	157	753	4	751	* AG	0	4.1	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

CO Tractor Output
JOB: Intersection 1 Collier Ave at Enterprise
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Receptor	-7	746	2.0
2. Receptor	14	746	2.0
3. Receptor	14	757	2.0
4. Receptor	-7	757	2.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Receptor	175.	.7	.1	.1	.0	.0	.0	.0	.0	.0
2. Receptor	355.	.7	.0	.0	.4	.0	.0	.0	.1	.1
3. Receptor	185.	.8	.0	.4	.0	.0	.0	.0	.0	.0
4. Receptor	175.	.7	.1	.1	.0	.0	.0	.0	.0	.0

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. Receptor	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. Receptor	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. Receptor	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. Receptor	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0