

Scheu Business Center - San Bernardino-South Coast County, Annual

Scheu Business Center
San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	240.06	1000sqft	5.51	240,060.00	0
Parking Lot	336.45	1000sqft	7.72	336,449.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Scheu Business Center - San Bernardino-South Coast County, Annual

Project Characteristics -

Land Use - As per the site-plan

Grading - Net Import 33,500 CY.

Construction Phase - Construction phasing adjusted to meet Opening Year 2019 schedule.

Off-road Equipment - Construction equipment increased during building phase for shortened phase schedule.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - Weekday rate adjusted per Traffic Study and ITE 10th Edition.

Water And Wastewater - CalEEMod does not provide outdoor water usage for industrial buildings or parking lot. Outdoor water usage estimated to be additional 10% of indoor use.

Operational Off-Road Equipment - Industrial project assumes 1 forklift for each building suite/tenant on-site (10 total)

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation - Project will be required to comply with SCAQMD Rule 403 regarding fugitive dust control.

Scheu Business Center - San Bernardino-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	300.00	240.00
tblConstructionPhase	PhaseEndDate	7/17/2020	12/20/2019
tblConstructionPhase	PhaseEndDate	5/22/2020	10/25/2019
tblConstructionPhase	PhaseEndDate	3/29/2019	11/23/2018
tblConstructionPhase	PhaseEndDate	6/19/2020	11/22/2019
tblConstructionPhase	PhaseEndDate	2/15/2019	10/12/2018
tblConstructionPhase	PhaseStartDate	6/20/2020	11/23/2019
tblConstructionPhase	PhaseStartDate	3/30/2019	11/24/2018
tblConstructionPhase	PhaseStartDate	2/16/2019	10/13/2018
tblConstructionPhase	PhaseStartDate	5/23/2020	10/26/2019
tblConstructionPhase	PhaseStartDate	2/2/2019	10/1/2018
tblGrading	MaterialImported	0.00	33,500.00
tblLandUse	LandUseSquareFeet	336,450.00	336,449.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	10.00
tblSequestration	NumberOfNewTrees	0.00	158.00
tblVehicleTrips	WD_TR	6.97	4.96
tblWater	OutdoorWaterUseRate	0.00	5,551,387.50

2.0 Emissions Summary

Scheu Business Center - San Bernardino-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-7-2019	4-6-2019	1.6958	1.6958
2	4-7-2019	7-6-2019	1.7146	1.7146
3	7-7-2019	9-30-2019	1.6204	1.6204
		Highest	1.7146	1.7146

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0059	7.0000e-005	7.4300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0143	0.0143	4.0000e-005	0.0000	0.0153
Energy	0.0421	0.3823	0.3212	2.2900e-003		0.0291	0.0291		0.0291	0.0291	0.0000	1,230.0894	1,230.0894	0.0416	0.0146	1,235.4745
Mobile	0.4341	3.3055	6.0975	0.0210	1.5498	0.0221	1.5720	0.4154	0.0209	0.4363	0.0000	1,938.4850	1,938.4850	0.1017	0.0000	1,941.0269
Offroad	0.2090	1.8661	1.5602	1.9900e-003		0.1446	0.1446		0.1330	0.1330	0.0000	179.3505	179.3505	0.0567	0.0000	180.7691
Waste						0.0000	0.0000		0.0000	0.0000	60.4243	0.0000	60.4243	3.5710	0.0000	149.6987
Water						0.0000	0.0000		0.0000	0.0000	17.6120	249.9655	267.5775	1.8192	0.0449	326.4231
Total	1.6910	5.5540	7.9863	0.0253	1.5498	0.1958	1.7456	0.4154	0.1830	0.5984	78.0363	3,597.9048	3,675.9411	5.5903	0.0594	3,833.4076

Scheu Business Center - San Bernardino-South Coast County, Annual

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	111.8640
Total	111.8640

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	10/1/2018	10/12/2018	5	10	
2	Grading	Grading	10/13/2018	11/23/2018	5	30	
3	Building Construction	Building Construction	11/24/2018	10/25/2019	5	240	
4	Paving	Paving	10/26/2019	11/22/2019	5	20	
5	Architectural Coating	Architectural Coating	11/23/2019	12/20/2019	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 7.72

Scheu Business Center - San Bernardino-South Coast County, Annual

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 360,090; Non-Residential Outdoor: 120,030; Striped Parking Area: 20,187 (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	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	4	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Scheu Business Center - San Bernardino-South Coast County, Annual

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	4,188.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	242.00	94.00	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	48.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Soil Stabilizer
- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0228	0.2410	0.1124	1.9000e-004		0.0129	0.0129		0.0119	0.0119	0.0000	17.3800	17.3800	5.4100e-003	0.0000	17.5152
Total	0.0228	0.2410	0.1124	1.9000e-004	0.0903	0.0129	0.1032	0.0497	0.0119	0.0615	0.0000	17.3800	17.3800	5.4100e-003	0.0000	17.5152

Scheu Business Center - San Bernardino-South Coast County, Annual

3.2 Site Preparation - 2018

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	5.3000e-004	4.5000e-004	4.3800e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.9038	0.9038	3.0000e-005	0.0000	0.9046
Total	5.3000e-004	4.5000e-004	4.3800e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.9038	0.9038	3.0000e-005	0.0000	0.9046

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					0.0346	0.0000	0.0346	0.0190	0.0000	0.0190	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0228	0.2410	0.1124	1.9000e-004		0.0129	0.0129		0.0119	0.0119	0.0000	17.3799	17.3799	5.4100e-003	0.0000	17.5152
Total	0.0228	0.2410	0.1124	1.9000e-004	0.0346	0.0129	0.0474	0.0190	0.0119	0.0308	0.0000	17.3799	17.3799	5.4100e-003	0.0000	17.5152

Scheu Business Center - San Bernardino-South Coast County, Annual

3.2 Site Preparation - 2018

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	5.3000e-004	4.5000e-004	4.3800e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.9038	0.9038	3.0000e-005	0.0000	0.9046
Total	5.3000e-004	4.5000e-004	4.3800e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.9038	0.9038	3.0000e-005	0.0000	0.9046

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1320	0.0000	0.1320	0.0542	0.0000	0.0542	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0764	0.8928	0.5263	9.3000e-004		0.0395	0.0395		0.0364	0.0364	0.0000	84.9728	84.9728	0.0265	0.0000	85.6341
Total	0.0764	0.8928	0.5263	9.3000e-004	0.1320	0.0395	0.1715	0.0542	0.0364	0.0906	0.0000	84.9728	84.9728	0.0265	0.0000	85.6341

Scheu Business Center - San Bernardino-South Coast County, Annual

3.3 Grading - 2018

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	0.0152	0.6057	0.0895	1.6600e-003	0.0360	2.0700e-003	0.0381	9.9000e-003	1.9800e-003	0.0119	0.0000	160.0021	160.0021	9.2000e-003	0.0000	160.2321
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7700e-003	1.4900e-003	0.0146	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	3.0127	3.0127	1.1000e-004	0.0000	3.0154
Total	0.0170	0.6072	0.1041	1.6900e-003	0.0393	2.0900e-003	0.0414	0.0108	2.0000e-003	0.0128	0.0000	163.0148	163.0148	9.3100e-003	0.0000	163.2475

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					0.0505	0.0000	0.0505	0.0207	0.0000	0.0207	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0764	0.8928	0.5263	9.3000e-004		0.0395	0.0395		0.0364	0.0364	0.0000	84.9727	84.9727	0.0265	0.0000	85.6340
Total	0.0764	0.8928	0.5263	9.3000e-004	0.0505	0.0395	0.0900	0.0207	0.0364	0.0571	0.0000	84.9727	84.9727	0.0265	0.0000	85.6340

Scheu Business Center - San Bernardino-South Coast County, Annual

3.3 Grading - 2018

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	0.0152	0.6057	0.0895	1.6600e-003	0.0360	2.0700e-003	0.0381	9.9000e-003	1.9800e-003	0.0119	0.0000	160.0021	160.0021	9.2000e-003	0.0000	160.2321
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7700e-003	1.4900e-003	0.0146	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	3.0127	3.0127	1.1000e-004	0.0000	3.0154
Total	0.0170	0.6072	0.1041	1.6900e-003	0.0393	2.0900e-003	0.0414	0.0108	2.0000e-003	0.0128	0.0000	163.0148	163.0148	9.3100e-003	0.0000	163.2475

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	0.0590	0.5074	0.3724	5.9000e-004		0.0315	0.0315		0.0298	0.0298	0.0000	51.7369	51.7369	0.0120	0.0000	52.0371
Total	0.0590	0.5074	0.3724	5.9000e-004		0.0315	0.0315		0.0298	0.0298	0.0000	51.7369	51.7369	0.0120	0.0000	52.0371

Scheu Business Center - San Bernardino-South Coast County, Annual

3.4 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0100e-003	0.1522	0.0346	3.3000e-004	7.7000e-003	1.0500e-003	8.7500e-003	2.2200e-003	1.0000e-003	3.2200e-003	0.0000	31.7348	31.7348	2.3100e-003	0.0000	31.7926
Worker	0.0186	0.0157	0.1533	3.5000e-004	0.0345	2.4000e-004	0.0347	9.1600e-003	2.3000e-004	9.3900e-003	0.0000	31.5929	31.5929	1.1500e-003	0.0000	31.6216
Total	0.0236	0.1678	0.1878	6.8000e-004	0.0422	1.2900e-003	0.0435	0.0114	1.2300e-003	0.0126	0.0000	63.3277	63.3277	3.4600e-003	0.0000	63.4143

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	0.0590	0.5074	0.3724	5.9000e-004		0.0315	0.0315		0.0298	0.0298	0.0000	51.7369	51.7369	0.0120	0.0000	52.0370
Total	0.0590	0.5074	0.3724	5.9000e-004		0.0315	0.0315		0.0298	0.0298	0.0000	51.7369	51.7369	0.0120	0.0000	52.0370

Scheu Business Center - San Bernardino-South Coast County, Annual

3.4 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0100e-003	0.1522	0.0346	3.3000e-004	7.7000e-003	1.0500e-003	8.7500e-003	2.2200e-003	1.0000e-003	3.2200e-003	0.0000	31.7348	31.7348	2.3100e-003	0.0000	31.7926
Worker	0.0186	0.0157	0.1533	3.5000e-004	0.0345	2.4000e-004	0.0347	9.1600e-003	2.3000e-004	9.3900e-003	0.0000	31.5929	31.5929	1.1500e-003	0.0000	31.6216
Total	0.0236	0.1678	0.1878	6.8000e-004	0.0422	1.2900e-003	0.0435	0.0114	1.2300e-003	0.0126	0.0000	63.3277	63.3277	3.4600e-003	0.0000	63.4143

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4275	3.7675	2.9863	4.8500e-003		0.2231	0.2231		0.2109	0.2109	0.0000	421.5038	421.5038	0.0967	0.0000	423.9223
Total	0.4275	3.7675	2.9863	4.8500e-003		0.2231	0.2231		0.2109	0.2109	0.0000	421.5038	421.5038	0.0967	0.0000	423.9223

Scheu Business Center - San Bernardino-South Coast County, Annual

3.4 Building Construction - 2019

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	0.0368	1.1746	0.2545	2.7000e-003	0.0634	7.2800e-003	0.0707	0.0183	6.9700e-003	0.0253	0.0000	258.5748	258.5748	0.0186	0.0000	259.0401
Worker	0.1389	0.1132	1.1155	2.7800e-003	0.2839	1.9500e-003	0.2859	0.0754	1.7900e-003	0.0772	0.0000	251.1887	251.1887	8.3000e-003	0.0000	251.3961
Total	0.1757	1.2879	1.3700	5.4800e-003	0.3473	9.2300e-003	0.3566	0.0937	8.7600e-003	0.1025	0.0000	509.7635	509.7635	0.0269	0.0000	510.4361

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	0.4275	3.7675	2.9863	4.8500e-003		0.2231	0.2231		0.2109	0.2109	0.0000	421.5033	421.5033	0.0967	0.0000	423.9218
Total	0.4275	3.7675	2.9863	4.8500e-003		0.2231	0.2231		0.2109	0.2109	0.0000	421.5033	421.5033	0.0967	0.0000	423.9218

Scheu Business Center - San Bernardino-South Coast County, Annual

3.4 Building Construction - 2019

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	0.0368	1.1746	0.2545	2.7000e-003	0.0634	7.2800e-003	0.0707	0.0183	6.9700e-003	0.0253	0.0000	258.5748	258.5748	0.0186	0.0000	259.0401
Worker	0.1389	0.1132	1.1155	2.7800e-003	0.2839	1.9500e-003	0.2859	0.0754	1.7900e-003	0.0772	0.0000	251.1887	251.1887	8.3000e-003	0.0000	251.3961
Total	0.1757	1.2879	1.3700	5.4800e-003	0.3473	9.2300e-003	0.3566	0.0937	8.7600e-003	0.1025	0.0000	509.7635	509.7635	0.0269	0.0000	510.4361

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0145	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371
Paving	0.0101					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0247	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371

Scheu Business Center - San Bernardino-South Coast County, Annual

3.5 Paving - 2019

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	8.0000e-004	6.6000e-004	6.4600e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4551	1.4551	5.0000e-005	0.0000	1.4563
Total	8.0000e-004	6.6000e-004	6.4600e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4551	1.4551	5.0000e-005	0.0000	1.4563

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	0.0145	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371
Paving	0.0101					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0247	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371

Scheu Business Center - San Bernardino-South Coast County, Annual

3.5 Paving - 2019

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	6.6000e-004	6.4600e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4551	1.4551	5.0000e-005	0.0000	1.4563
Total	8.0000e-004	6.6000e-004	6.4600e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4551	1.4551	5.0000e-005	0.0000	1.4563

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1595					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6600e-003	0.0184	0.0184	3.0000e-005		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	2.5533	2.5533	2.2000e-004	0.0000	2.5587
Total	1.1621	0.0184	0.0184	3.0000e-005		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	2.5533	2.5533	2.2000e-004	0.0000	2.5587

Scheu Business Center - San Bernardino-South Coast County, Annual

3.6 Architectural Coating - 2019

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	2.5700e-003	2.1000e-003	0.0207	5.0000e-005	5.2600e-003	4.0000e-005	5.3000e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	4.6563	4.6563	1.5000e-004	0.0000	4.6602
Total	2.5700e-003	2.1000e-003	0.0207	5.0000e-005	5.2600e-003	4.0000e-005	5.3000e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	4.6563	4.6563	1.5000e-004	0.0000	4.6602

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	1.1595					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6600e-003	0.0184	0.0184	3.0000e-005		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	2.5533	2.5533	2.2000e-004	0.0000	2.5586
Total	1.1621	0.0184	0.0184	3.0000e-005		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	2.5533	2.5533	2.2000e-004	0.0000	2.5586

Scheu Business Center - San Bernardino-South Coast County, Annual

3.6 Architectural Coating - 2019

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	2.5700e-003	2.1000e-003	0.0207	5.0000e-005	5.2600e-003	4.0000e-005	5.3000e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	4.6563	4.6563	1.5000e-004	0.0000	4.6602
Total	2.5700e-003	2.1000e-003	0.0207	5.0000e-005	5.2600e-003	4.0000e-005	5.3000e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	4.6563	4.6563	1.5000e-004	0.0000	4.6602

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Scheu Business Center - San Bernardino-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4341	3.3055	6.0975	0.0210	1.5498	0.0221	1.5720	0.4154	0.0209	0.4363	0.0000	1,938.4850	1,938.4850	0.1017	0.0000	1,941.0269
Unmitigated	0.4341	3.3055	6.0975	0.0210	1.5498	0.0221	1.5720	0.4154	0.0209	0.4363	0.0000	1,938.4850	1,938.4850	0.1017	0.0000	1,941.0269

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	1,190.70	316.88	163.24	4,069,972	4,069,972
Parking Lot	0.00	0.00	0.00		
Total	1,190.70	316.88	163.24	4,069,972	4,069,972

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
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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163
Parking Lot	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163

Scheu Business Center - San Bernardino-South Coast County, Annual

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	813.8758	813.8758	0.0336	6.9500e-003	816.7875
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	813.8758	813.8758	0.0336	6.9500e-003	816.7875
NaturalGas Mitigated	0.0421	0.3823	0.3212	2.2900e-003		0.0291	0.0291		0.0291	0.0291	0.0000	416.2137	416.2137	7.9800e-003	7.6300e-003	418.6870
NaturalGas Unmitigated	0.0421	0.3823	0.3212	2.2900e-003		0.0291	0.0291		0.0291	0.0291	0.0000	416.2137	416.2137	7.9800e-003	7.6300e-003	418.6870

Scheu Business Center - San Bernardino-South Coast County, Annual

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	7.79955e+006	0.0421	0.3823	0.3212	2.2900e-003		0.0291	0.0291		0.0291	0.0291	0.0000	416.2137	416.2137	7.9800e-003	7.6300e-003	418.6870
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0421	0.3823	0.3212	2.2900e-003		0.0291	0.0291		0.0291	0.0291	0.0000	416.2137	416.2137	7.9800e-003	7.6300e-003	418.6870

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	7.79955e+006	0.0421	0.3823	0.3212	2.2900e-003		0.0291	0.0291		0.0291	0.0291	0.0000	416.2137	416.2137	7.9800e-003	7.6300e-003	418.6870
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0421	0.3823	0.3212	2.2900e-003		0.0291	0.0291		0.0291	0.0291	0.0000	416.2137	416.2137	7.9800e-003	7.6300e-003	418.6870

Scheu Business Center - San Bernardino-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	2.43661e+006	776.3558	0.0321	6.6300e-003	779.1333
Parking Lot	117757	37.5200	1.5500e-003	3.2000e-004	37.6542
Total		813.8758	0.0336	6.9500e-003	816.7875

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	2.43661e+006	776.3558	0.0321	6.6300e-003	779.1333
Parking Lot	117757	37.5200	1.5500e-003	3.2000e-004	37.6542
Total		813.8758	0.0336	6.9500e-003	816.7875

6.0 Area Detail

6.1 Mitigation Measures Area

Scheu Business Center - San Bernardino-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0059	7.0000e-005	7.4300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0143	0.0143	4.0000e-005	0.0000	0.0153
Unmitigated	1.0059	7.0000e-005	7.4300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0143	0.0143	4.0000e-005	0.0000	0.0153

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	0.1160					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8892					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-004	7.0000e-005	7.4300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0143	0.0143	4.0000e-005	0.0000	0.0153
Total	1.0059	7.0000e-005	7.4300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0143	0.0143	4.0000e-005	0.0000	0.0153

Scheu Business Center - San Bernardino-South Coast County, Annual

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	0.1160					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8892					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-004	7.0000e-005	7.4300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0143	0.0143	4.0000e-005	0.0000	0.0153
Total	1.0059	7.0000e-005	7.4300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0143	0.0143	4.0000e-005	0.0000	0.0153

7.0 Water Detail

7.1 Mitigation Measures Water

Scheu Business Center - San Bernardino-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	267.5775	1.8192	0.0449	326.4231
Unmitigated	267.5775	1.8192	0.0449	326.4231

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	55.5139 / 5.55139	267.5775	1.8192	0.0449	326.4231
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		267.5775	1.8192	0.0449	326.4231

Scheu Business Center - San Bernardino-South Coast County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	55.5139 / 5.55139	267.5775	1.8192	0.0449	326.4231
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		267.5775	1.8192	0.0449	326.4231

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	60.4243	3.5710	0.0000	149.6987
Unmitigated	60.4243	3.5710	0.0000	149.6987

Scheu Business Center - San Bernardino-South Coast County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	297.67	60.4243	3.5710	0.0000	149.6987
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		60.4243	3.5710	0.0000	149.6987

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	297.67	60.4243	3.5710	0.0000	149.6987
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		60.4243	3.5710	0.0000	149.6987

9.0 Operational Offroad

Scheu Business Center - San Bernardino-South Coast County, Annual

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	10	8.00	260	89	0.20	Diesel

UnMitigated/Mitigated

Equipment Type	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Forklifts	0.2090	1.8661	1.5602	1.9900e-003		0.1446	0.1446		0.1330	0.1330	0.0000	179.3505	179.3505	0.0567	0.0000	180.7691
Total	0.2090	1.8661	1.5602	1.9900e-003		0.1446	0.1446		0.1330	0.1330	0.0000	179.3505	179.3505	0.0567	0.0000	180.7691

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Scheu Business Center - San Bernardino-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	111.8640	0.0000	0.0000	111.8640

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	158	111.8640	0.0000	0.0000	111.8640
Total		111.8640	0.0000	0.0000	111.8640