

Riverside Motorcycle Park - Riverside-South Coast County, Annual

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Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	21.91	1000sqft	0.50	21,909.00	0
Other Non-Asphalt Surfaces	3,974.78	1000sqft	91.25	3,974,783.00	0
Regional Shopping Center	42.28	1000sqft	0.97	42,284.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	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 - The Proposed Project includes implementation of 42,284 square feet of building space, of which a majority will be optimized to support the proposed Pro Race Shop. Therefore, CalEEMod's "Regional Shopping Center" Land Use Subtype was determined to be most representative of the proposed building use.

Construction Phase - Demolition is not required.

Vehicle Trips - In accordance with the TIA prepared by Urban Crossroads.

Fleet Mix - In accordance with the TIA prepared by Urban Crossroads.

Construction Off-road Equipment Mitigation -

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	110.00	100.00
tblConstructionPhase	NumDays	1,550.00	100.00
tblConstructionPhase	NumDays	110.00	100.00
tblConstructionPhase	PhaseEndDate	8/13/2027	12/24/2021
tblConstructionPhase	PhaseEndDate	10/9/2026	3/19/2021
tblConstructionPhase	PhaseEndDate	3/12/2027	8/6/2021
tblConstructionPhase	PhaseStartDate	3/13/2027	8/9/2021
tblConstructionPhase	PhaseStartDate	10/31/2020	11/2/2020
tblConstructionPhase	PhaseStartDate	10/10/2026	3/22/2021
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.54	0.97
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.1410e-003	0.00
tblFleetMix	MCY	4.5820e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	1.0380e-003	0.00
tblFleetMix	MHD	0.02	0.03
tblFleetMix	OBUS	1.3830e-003	0.00
tblFleetMix	SBUS	9.4500e-004	0.00
tblFleetMix	UBUS	1.1830e-003	0.00
tblLandUse	LandUseSquareFeet	21,910.00	21,909.00
tblLandUse	LandUseSquareFeet	3,974,780.00	3,974,783.00
tblLandUse	LandUseSquareFeet	42,280.00	42,284.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

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tblVehicleTrips	ST_TR	49.97	9.72
tblVehicleTrips	SU_TR	25.24	9.72
tblVehicleTrips	WD_TR	42.70	9.72

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-6-2020	4-5-2020	1.5434	1.5434
2	4-6-2020	7-5-2020	1.7827	1.7827
3	7-6-2020	10-5-2020	1.8023	1.8023
4	10-6-2020	1-5-2021	3.0738	3.0738
5	1-6-2021	4-5-2021	2.7013	2.7013
6	4-6-2021	7-5-2021	0.4657	0.4657
7	7-6-2021	9-30-2021	0.5418	0.5418
		Highest	3.0738	3.0738

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	0.4912	4.7000e-004	0.0518	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	0.1002	0.1002	2.7000e-004	0.0000	0.1069
Energy	5.1000e-004	4.6000e-003	3.8700e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	177.6113	177.6113	7.2200e-003	1.5700e-003	178.2586
Mobile	0.0639	0.1728	0.8678	3.3400e-003	0.3919	2.4100e-003	0.3943	0.1046	2.2300e-003	0.1068	0.0000	303.7220	303.7220	5.3400e-003	0.0000	303.8556
Waste						0.0000	0.0000		0.0000	0.0000	9.0108	0.0000	9.0108	0.5325	0.0000	22.3238
Water						0.0000	0.0000		0.0000	0.0000	0.9936	19.7878	20.7814	0.1029	2.5800e-003	24.1215
Total	0.5556	0.1779	0.9234	3.3700e-003	0.3919	2.9500e-003	0.3948	0.1046	2.7700e-003	0.1074	10.0043	501.2214	511.2257	0.6482	4.1500e-003	528.6663

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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	0.4912	4.7000e-004	0.0518	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	0.1002	0.1002	2.7000e-004	0.0000	0.1069
Energy	5.1000e-004	4.6000e-003	3.8700e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	177.6113	177.6113	7.2200e-003	1.5700e-003	178.2586
Mobile	0.0639	0.1728	0.8678	3.3400e-003	0.3919	2.4100e-003	0.3943	0.1046	2.2300e-003	0.1068	0.0000	303.7220	303.7220	5.3400e-003	0.0000	303.8556
Waste						0.0000	0.0000		0.0000	0.0000	9.0108	0.0000	9.0108	0.5325	0.0000	22.3238
Water						0.0000	0.0000		0.0000	0.0000	0.9936	19.7878	20.7814	0.1029	2.5800e-003	24.1215
Total	0.5556	0.1779	0.9234	3.3700e-003	0.3919	2.9500e-003	0.3948	0.1046	2.7700e-003	0.1074	10.0043	501.2214	511.2257	0.6482	4.1500e-003	528.6663

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

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/6/2020	3/27/2020	5	60	
2	Grading	Grading	3/28/2020	10/30/2020	5	155	
3	Building Construction	Building Construction	11/2/2020	3/19/2021	5	100	
4	Paving	Paving	3/22/2021	8/6/2021	5	100	
5	Architectural Coating	Architectural Coating	8/9/2021	12/24/2021	5	100	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 387.5

Acres of Paving: 91.75

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 63,426; Non-Residential Outdoor: 21,142; Striped Parking Area: 239,802 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,692.00	662.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	338.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5420	0.0000	0.5420	0.2979	0.0000	0.2979	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1223	1.2725	0.6454	1.1400e-003		0.0659	0.0659		0.0607	0.0607	0.0000	100.2920	100.2920	0.0324	0.0000	101.1030
Total	0.1223	1.2725	0.6454	1.1400e-003	0.5420	0.0659	0.6079	0.2979	0.0607	0.3586	0.0000	100.2920	100.2920	0.0324	0.0000	101.1030

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3.2 Site Preparation - 2020

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	3.1300e-003	2.2800e-003	0.0241	7.0000e-005	7.9900e-003	5.0000e-005	8.0400e-003	2.1200e-003	4.0000e-005	2.1700e-003	0.0000	6.6510	6.6510	1.6000e-004	0.0000	6.6551
Total	3.1300e-003	2.2800e-003	0.0241	7.0000e-005	7.9900e-003	5.0000e-005	8.0400e-003	2.1200e-003	4.0000e-005	2.1700e-003	0.0000	6.6510	6.6510	1.6000e-004	0.0000	6.6551

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					0.2439	0.0000	0.2439	0.1341	0.0000	0.1341	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1223	1.2725	0.6454	1.1400e-003		0.0659	0.0659		0.0607	0.0607	0.0000	100.2919	100.2919	0.0324	0.0000	101.1028
Total	0.1223	1.2725	0.6454	1.1400e-003	0.2439	0.0659	0.3098	0.1341	0.0607	0.1947	0.0000	100.2919	100.2919	0.0324	0.0000	101.1028

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3.2 Site Preparation - 2020

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	3.1300e-003	2.2800e-003	0.0241	7.0000e-005	7.9900e-003	5.0000e-005	8.0400e-003	2.1200e-003	4.0000e-005	2.1700e-003	0.0000	6.6510	6.6510	1.6000e-004	0.0000	6.6551
Total	3.1300e-003	2.2800e-003	0.0241	7.0000e-005	7.9900e-003	5.0000e-005	8.0400e-003	2.1200e-003	4.0000e-005	2.1700e-003	0.0000	6.6510	6.6510	1.6000e-004	0.0000	6.6551

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6722	0.0000	0.6722	0.2787	0.0000	0.2787	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3449	3.8903	2.4768	4.8100e-003		0.1685	0.1685		0.1550	0.1550	0.0000	422.2533	422.2533	0.1366	0.0000	425.6674
Total	0.3449	3.8903	2.4768	4.8100e-003	0.6722	0.1685	0.8407	0.2787	0.1550	0.4337	0.0000	422.2533	422.2533	0.1366	0.0000	425.6674

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3.3 Grading - 2020

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	8.9900e-003	6.5500e-003	0.0693	2.1000e-004	0.0229	1.4000e-004	0.0231	6.0900e-003	1.3000e-004	6.2200e-003	0.0000	19.0908	19.0908	4.7000e-004	0.0000	19.1025
Total	8.9900e-003	6.5500e-003	0.0693	2.1000e-004	0.0229	1.4000e-004	0.0231	6.0900e-003	1.3000e-004	6.2200e-003	0.0000	19.0908	19.0908	4.7000e-004	0.0000	19.1025

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					0.3025	0.0000	0.3025	0.1254	0.0000	0.1254	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3449	3.8903	2.4768	4.8100e-003		0.1685	0.1685		0.1550	0.1550	0.0000	422.2528	422.2528	0.1366	0.0000	425.6669
Total	0.3449	3.8903	2.4768	4.8100e-003	0.3025	0.1685	0.4710	0.1254	0.1550	0.2804	0.0000	422.2528	422.2528	0.1366	0.0000	425.6669

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3.3 Grading - 2020

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	8.9900e-003	6.5500e-003	0.0693	2.1000e-004	0.0229	1.4000e-004	0.0231	6.0900e-003	1.3000e-004	6.2200e-003	0.0000	19.0908	19.0908	4.7000e-004	0.0000	19.1025
Total	8.9900e-003	6.5500e-003	0.0693	2.1000e-004	0.0229	1.4000e-004	0.0231	6.0900e-003	1.3000e-004	6.2200e-003	0.0000	19.0908	19.0908	4.7000e-004	0.0000	19.1025

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0466	0.4221	0.3707	5.9000e-004		0.0246	0.0246		0.0231	0.0231	0.0000	50.9542	50.9542	0.0124	0.0000	51.2650
Total	0.0466	0.4221	0.3707	5.9000e-004		0.0246	0.0246		0.0231	0.0231	0.0000	50.9542	50.9542	0.0124	0.0000	51.2650

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3.4 Building Construction - 2020

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	0.0440	1.5913	0.3113	4.1300e-003	0.1053	9.7400e-003	0.1150	0.0304	9.3200e-003	0.0397	0.0000	395.1803	395.1803	0.0292	0.0000	395.9100
Worker	0.2160	0.1573	1.6640	5.0700e-003	0.5510	3.3100e-003	0.5543	0.1463	3.0500e-003	0.1493	0.0000	458.4738	458.4738	0.0113	0.0000	458.7554
Total	0.2600	1.7486	1.9753	9.2000e-003	0.6562	0.0131	0.6693	0.1766	0.0124	0.1890	0.0000	853.6541	853.6541	0.0405	0.0000	854.6654

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	0.0466	0.4221	0.3707	5.9000e-004		0.0246	0.0246		0.0231	0.0231	0.0000	50.9541	50.9541	0.0124	0.0000	51.2649
Total	0.0466	0.4221	0.3707	5.9000e-004		0.0246	0.0246		0.0231	0.0231	0.0000	50.9541	50.9541	0.0124	0.0000	51.2649

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3.4 Building Construction - 2020

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	0.0440	1.5913	0.3113	4.1300e-003	0.1053	9.7400e-003	0.1150	0.0304	9.3200e-003	0.0397	0.0000	395.1803	395.1803	0.0292	0.0000	395.9100
Worker	0.2160	0.1573	1.6640	5.0700e-003	0.5510	3.3100e-003	0.5543	0.1463	3.0500e-003	0.1493	0.0000	458.4738	458.4738	0.0113	0.0000	458.7554
Total	0.2600	1.7486	1.9753	9.2000e-003	0.6562	0.0131	0.6693	0.1766	0.0124	0.1890	0.0000	853.6541	853.6541	0.0405	0.0000	854.6654

3.4 Building Construction - 2021

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	0.0532	0.4881	0.4641	7.5000e-004		0.0268	0.0268		0.0252	0.0252	0.0000	64.8584	64.8584	0.0157	0.0000	65.2496
Total	0.0532	0.4881	0.4641	7.5000e-004		0.0268	0.0268		0.0252	0.0252	0.0000	64.8584	64.8584	0.0157	0.0000	65.2496

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3.4 Building Construction - 2021

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	0.0466	1.8034	0.3475	5.2200e-003	0.1340	3.7300e-003	0.1377	0.0386	3.5700e-003	0.0422	0.0000	499.0980	499.0980	0.0352	0.0000	499.9773
Worker	0.2567	0.1797	1.9400	6.2400e-003	0.7012	4.1000e-003	0.7053	0.1862	3.7800e-003	0.1900	0.0000	563.9954	563.9954	0.0129	0.0000	564.3178
Total	0.3034	1.9831	2.2875	0.0115	0.8352	7.8300e-003	0.8430	0.2248	7.3500e-003	0.2322	0.0000	1,063.0933	1,063.0933	0.0481	0.0000	1,064.2950

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	0.0532	0.4881	0.4641	7.5000e-004		0.0268	0.0268		0.0252	0.0252	0.0000	64.8584	64.8584	0.0157	0.0000	65.2496
Total	0.0532	0.4881	0.4641	7.5000e-004		0.0268	0.0268		0.0252	0.0252	0.0000	64.8584	64.8584	0.0157	0.0000	65.2496

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3.4 Building Construction - 2021

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	0.0466	1.8034	0.3475	5.2200e-003	0.1340	3.7300e-003	0.1377	0.0386	3.5700e-003	0.0422	0.0000	499.0980	499.0980	0.0352	0.0000	499.9773
Worker	0.2567	0.1797	1.9400	6.2400e-003	0.7012	4.1000e-003	0.7053	0.1862	3.7800e-003	0.1900	0.0000	563.9954	563.9954	0.0129	0.0000	564.3178
Total	0.3034	1.9831	2.2875	0.0115	0.8352	7.8300e-003	0.8430	0.2248	7.3500e-003	0.2322	0.0000	1,063.0933	1,063.0933	0.0481	0.0000	1,064.2950

3.5 Paving - 2021

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	0.0628	0.6460	0.7327	1.1400e-003		0.0339	0.0339		0.0312	0.0312	0.0000	100.1174	100.1174	0.0324	0.0000	100.9269
Paving	6.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0634	0.6460	0.7327	1.1400e-003		0.0339	0.0339		0.0312	0.0312	0.0000	100.1174	100.1174	0.0324	0.0000	100.9269

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3.5 Paving - 2021

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	4.0600e-003	2.8400e-003	0.0307	1.0000e-004	0.0111	6.0000e-005	0.0112	2.9500e-003	6.0000e-005	3.0100e-003	0.0000	8.9285	8.9285	2.0000e-004	0.0000	8.9336
Total	4.0600e-003	2.8400e-003	0.0307	1.0000e-004	0.0111	6.0000e-005	0.0112	2.9500e-003	6.0000e-005	3.0100e-003	0.0000	8.9285	8.9285	2.0000e-004	0.0000	8.9336

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	0.0628	0.6460	0.7327	1.1400e-003		0.0339	0.0339		0.0312	0.0312	0.0000	100.1173	100.1173	0.0324	0.0000	100.9268
Paving	6.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0634	0.6460	0.7327	1.1400e-003		0.0339	0.0339		0.0312	0.0312	0.0000	100.1173	100.1173	0.0324	0.0000	100.9268

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3.5 Paving - 2021

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	4.0600e-003	2.8400e-003	0.0307	1.0000e-004	0.0111	6.0000e-005	0.0112	2.9500e-003	6.0000e-005	3.0100e-003	0.0000	8.9285	8.9285	2.0000e-004	0.0000	8.9336
Total	4.0600e-003	2.8400e-003	0.0307	1.0000e-004	0.0111	6.0000e-005	0.0112	2.9500e-003	6.0000e-005	3.0100e-003	0.0000	8.9285	8.9285	2.0000e-004	0.0000	8.9336

3.6 Architectural Coating - 2021

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	0.7517					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0109	0.0763	0.0909	1.5000e-004		4.7000e-003	4.7000e-003		4.7000e-003	4.7000e-003	0.0000	12.7663	12.7663	8.8000e-004	0.0000	12.7882
Total	0.7627	0.0763	0.0909	1.5000e-004		4.7000e-003	4.7000e-003		4.7000e-003	4.7000e-003	0.0000	12.7663	12.7663	8.8000e-004	0.0000	12.7882

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3.6 Architectural Coating - 2021

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	0.0916	0.0641	0.6921	2.2200e-003	0.2501	1.4600e-003	0.2516	0.0664	1.3500e-003	0.0678	0.0000	201.1888	201.1888	4.6000e-003	0.0000	201.3038
Total	0.0916	0.0641	0.6921	2.2200e-003	0.2501	1.4600e-003	0.2516	0.0664	1.3500e-003	0.0678	0.0000	201.1888	201.1888	4.6000e-003	0.0000	201.3038

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	0.7517					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0109	0.0763	0.0909	1.5000e-004		4.7000e-003	4.7000e-003		4.7000e-003	4.7000e-003	0.0000	12.7663	12.7663	8.8000e-004	0.0000	12.7882
Total	0.7627	0.0763	0.0909	1.5000e-004		4.7000e-003	4.7000e-003		4.7000e-003	4.7000e-003	0.0000	12.7663	12.7663	8.8000e-004	0.0000	12.7882

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3.6 Architectural Coating - 2021

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	0.0916	0.0641	0.6921	2.2200e-003	0.2501	1.4600e-003	0.2516	0.0664	1.3500e-003	0.0678	0.0000	201.1888	201.1888	4.6000e-003	0.0000	201.3038
Total	0.0916	0.0641	0.6921	2.2200e-003	0.2501	1.4600e-003	0.2516	0.0664	1.3500e-003	0.0678	0.0000	201.1888	201.1888	4.6000e-003	0.0000	201.3038

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive 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	0.0639	0.1728	0.8678	3.3400e-003	0.3919	2.4100e-003	0.3943	0.1046	2.2300e-003	0.1068	0.0000	303.7220	303.7220	5.3400e-003	0.0000	303.8556
Unmitigated	0.0639	0.1728	0.8678	3.3400e-003	0.3919	2.4100e-003	0.3943	0.1046	2.2300e-003	0.1068	0.0000	303.7220	303.7220	5.3400e-003	0.0000	303.8556

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	410.96	410.96	410.96	1,038,997	1,038,997
Total	410.96	410.96	410.96	1,038,997	1,038,997

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
Other Non-Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Parking Lot	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	18.50	10.10	7.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Parking Lot	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Regional Shopping Center	0.966000	0.000000	0.000000	0.000000	0.000000	0.000000	0.034000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

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	172.6020	172.6020	7.1300e-003	1.4700e-003	173.2195
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	172.6020	172.6020	7.1300e-003	1.4700e-003	173.2195
NaturalGas Mitigated	5.1000e-004	4.6000e-003	3.8700e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	5.0093	5.0093	1.0000e-004	9.0000e-005	5.0391
NaturalGas Unmitigated	5.1000e-004	4.6000e-003	3.8700e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	5.0093	5.0093	1.0000e-004	9.0000e-005	5.0391

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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					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
Regional Shopping Center	93870.5	5.1000e-004	4.6000e-003	3.8700e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	5.0093	5.0093	1.0000e-004	9.0000e-005	5.0391
Total		5.1000e-004	4.6000e-003	3.8700e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	5.0093	5.0093	1.0000e-004	9.0000e-005	5.0391

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					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
Regional Shopping Center	93870.5	5.1000e-004	4.6000e-003	3.8700e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	5.0093	5.0093	1.0000e-004	9.0000e-005	5.0391
Total		5.1000e-004	4.6000e-003	3.8700e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	5.0093	5.0093	1.0000e-004	9.0000e-005	5.0391

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	7668.15	2.4432	1.0000e-004	2.0000e-005	2.4520
Regional Shopping Center	534047	170.1588	7.0200e-003	1.4500e-003	170.7675
Total		172.6020	7.1200e-003	1.4700e-003	173.2195

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	7668.15	2.4432	1.0000e-004	2.0000e-005	2.4520
Regional Shopping Center	534047	170.1588	7.0200e-003	1.4500e-003	170.7675
Total		172.6020	7.1200e-003	1.4700e-003	173.2195

6.0 Area Detail

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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	0.4912	4.7000e-004	0.0518	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	0.1002	0.1002	2.7000e-004	0.0000	0.1069
Unmitigated	0.4912	4.7000e-004	0.0518	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	0.1002	0.1002	2.7000e-004	0.0000	0.1069

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	0.0752					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4112					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.8300e-003	4.7000e-004	0.0518	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	0.1002	0.1002	2.7000e-004	0.0000	0.1069
Total	0.4912	4.7000e-004	0.0518	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	0.1002	0.1002	2.7000e-004	0.0000	0.1069

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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	0.0752					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4112					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.8300e-003	4.7000e-004	0.0518	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	0.1002	0.1002	2.7000e-004	0.0000	0.1069
Total	0.4912	4.7000e-004	0.0518	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	0.1002	0.1002	2.7000e-004	0.0000	0.1069

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	20.7814	0.1029	2.5800e-003	24.1215
Unmitigated	20.7814	0.1029	2.5800e-003	24.1215

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	3.13179 / 1.91948	20.7814	0.1029	2.5800e-003	24.1215
Total		20.7814	0.1029	2.5800e-003	24.1215

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	3.13179 / 1.91948	20.7814	0.1029	2.5800e-003	24.1215
Total		20.7814	0.1029	2.5800e-003	24.1215

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.0108	0.5325	0.0000	22.3238
Unmitigated	9.0108	0.5325	0.0000	22.3238

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	44.39	9.0108	0.5325	0.0000	22.3238
Total		9.0108	0.5325	0.0000	22.3238

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	44.39	9.0108	0.5325	0.0000	22.3238
Total		9.0108	0.5325	0.0000	22.3238

9.0 Operational Offroad

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