

Orange Chick-fil-A - Orange County, Summer

Orange Chick-fil-A
Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Fast Food Restaurant with Drive Thru	4.56	1000sqft	0.10	4,563.00	0
Parking Lot	48.00	Space	0.43	19,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			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

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Project Characteristics -

Land Use - Per construction questionnaire and project description.

Construction Phase - Anticipated construction schedule.

Off-road Equipment -

Off-road Equipment - Per construction questionnaire.

Off-road Equipment -

Grading - Per email from applicant.

Demolition -

Vehicle Trips - Per traffic study.

Construction Off-road Equipment Mitigation - Per SCAQMD standards and regulations.

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	11.00
tblConstructionPhase	NumDays	100.00	110.00
tblConstructionPhase	NumDays	10.00	11.00
tblConstructionPhase	NumDays	2.00	11.00
tblConstructionPhase	NumDays	5.00	22.00
tblConstructionPhase	PhaseEndDate	10/17/2019	12/2/2019
tblConstructionPhase	PhaseEndDate	10/3/2019	12/2/2019
tblConstructionPhase	PhaseEndDate	5/14/2019	5/15/2019
tblConstructionPhase	PhaseEndDate	5/16/2019	5/30/2019
tblConstructionPhase	PhaseEndDate	10/10/2019	7/1/2019
tblConstructionPhase	PhaseStartDate	10/11/2019	11/18/2019

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tblConstructionPhase	PhaseStartDate	5/17/2019	7/2/2019
tblConstructionPhase	PhaseStartDate	5/15/2019	5/16/2019
tblConstructionPhase	PhaseStartDate	10/4/2019	5/31/2019
tblGrading	MaterialExported	0.00	950.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblVehicleTrips	ST_TR	722.03	353.28
tblVehicleTrips	SU_TR	542.72	353.28
tblVehicleTrips	WD_TR	496.12	353.28

2.0 Emissions Summary

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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	lb/day										lb/day					
Area	0.1107	5.0000e-005	5.4200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123
Energy	0.0350	0.3178	0.2670	1.9100e-003		0.0242	0.0242		0.0242	0.0242		381.3947	381.3947	7.3100e-003	6.9900e-003	383.6612
Mobile	2.1248	6.6271	17.1435	0.0466	3.5981	0.0544	3.6525	0.9622	0.0511	1.0133		4,728.1127	4,728.1127	0.2490		4,734.3370
Total	2.2704	6.9450	17.4159	0.0485	3.5981	0.0786	3.6767	0.9622	0.0753	1.0374		5,109.5190	5,109.5190	0.2563	6.9900e-003	5,118.0105

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	0.1107	5.0000e-005	5.4200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123
Energy	0.0350	0.3178	0.2670	1.9100e-003		0.0242	0.0242		0.0242	0.0242		381.3947	381.3947	7.3100e-003	6.9900e-003	383.6612
Mobile	2.1248	6.6271	17.1435	0.0466	3.5981	0.0544	3.6525	0.9622	0.0511	1.0133		4,728.1127	4,728.1127	0.2490		4,734.3370
Total	2.2704	6.9450	17.4159	0.0485	3.5981	0.0786	3.6767	0.9622	0.0753	1.0374		5,109.5190	5,109.5190	0.2563	6.9900e-003	5,118.0105

Orange Chick-fil-A - Orange County, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/1/2019	5/15/2019	5	11	
2	Grading	Grading	5/16/2019	5/30/2019	5	11	
3	Building Construction	Building Construction	7/2/2019	12/2/2019	5	110	
4	Paving	Paving	5/31/2019	7/1/2019	5	22	
5	Architectural Coating	Architectural Coating	11/18/2019	12/2/2019	5	11	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.43

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 6,845; Non-Residential Outdoor: 2,282; Striped Parking Area: 1,152 (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
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Off-Highway Trucks	2	8.00	402	0.38
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Other Construction Equipment	1	8.00	172	0.42
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Trenchers	1	8.00	78	0.50
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	471.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	119.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Orange Chick-fil-A - Orange County, Summer

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 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	lb/day										lb/day					
Fugitive Dust					9.2619	0.0000	9.2619	1.4023	0.0000	1.4023			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.9530	8.6039	7.6917	0.0120	9.2619	0.5371	9.7990	1.4023	0.5125	1.9148		1,159.6570	1,159.6570	0.2211		1,165.1847

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3.2 Demolition - 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	lb/day										lb/day					
Hauling	0.3559	12.6920	3.0427	0.0332	0.7456	0.0487	0.7943	0.2041	0.0466	0.2507		3,693.379 2	3,693.379 2	0.3856		3,703.018 3
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	0.0412	0.0270	0.3567	1.1300e-003	0.1118	7.5000e-004	0.1125	0.0296	6.9000e-004	0.0303		112.6140	112.6140	2.7700e-003		112.6833
Total	0.3971	12.7190	3.3994	0.0344	0.8574	0.0495	0.9069	0.2338	0.0473	0.2811		3,805.993 2	3,805.993 2	0.3883		3,815.701 5

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					3.4315	0.0000	3.4315	0.5196	0.0000	0.5196			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125	0.0000	1,159.657 0	1,159.657 0	0.2211		1,165.184 7
Total	0.9530	8.6039	7.6917	0.0120	3.4315	0.5371	3.9686	0.5196	0.5125	1.0320	0.0000	1,159.657 0	1,159.657 0	0.2211		1,165.184 7

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3.2 Demolition - 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	lb/day										lb/day					
Hauling	0.3559	12.6920	3.0427	0.0332	0.5984	0.0487	0.6471	0.1680	0.0466	0.2146		3,693.379 2	3,693.379 2	0.3856		3,703.018 3
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	0.0412	0.0270	0.3567	1.1300e-003	0.0865	7.5000e-004	0.0873	0.0234	6.9000e-004	0.0241		112.6140	112.6140	2.7700e-003		112.6833
Total	0.3971	12.7190	3.3994	0.0344	0.6849	0.0495	0.7344	0.1914	0.0473	0.2387		3,805.993 2	3,805.993 2	0.3883		3,815.701 5

3.3 Grading - 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	lb/day										lb/day					
Fugitive Dust					0.7625	0.0000	0.7625	0.4153	0.0000	0.4153			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.657 0	1,159.657 0	0.2211		1,165.184 7
Total	0.9530	8.6039	7.6917	0.0120	0.7625	0.5371	1.2996	0.4153	0.5125	0.9277		1,159.657 0	1,159.657 0	0.2211		1,165.184 7

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3.3 Grading - 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	lb/day										lb/day					
Hauling	0.0899	3.2067	0.7688	8.3900e-003	0.1884	0.0123	0.2007	0.0516	0.0118	0.0634		933.1468	933.1468	0.0974		935.5821
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	0.0412	0.0270	0.3567	1.1300e-003	0.1118	7.5000e-004	0.1125	0.0296	6.9000e-004	0.0303		112.6140	112.6140	2.7700e-003		112.6833
Total	0.1311	3.2337	1.1255	9.5200e-003	0.3002	0.0131	0.3132	0.0812	0.0125	0.0937		1,045.7608	1,045.7608	0.1002		1,048.2654

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					0.2825	0.0000	0.2825	0.1539	0.0000	0.1539			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.9530	8.6039	7.6917	0.0120	0.2825	0.5371	0.8196	0.1539	0.5125	0.6663	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847

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3.3 Grading - 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	lb/day										lb/day					
Hauling	0.0899	3.2067	0.7688	8.3900e-003	0.1512	0.0123	0.1635	0.0424	0.0118	0.0542		933.1468	933.1468	0.0974		935.5821
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	0.0412	0.0270	0.3567	1.1300e-003	0.0865	7.5000e-004	0.0873	0.0234	6.9000e-004	0.0241		112.6140	112.6140	2.7700e-003		112.6833
Total	0.1311	3.2337	1.1255	9.5200e-003	0.2377	0.0131	0.2508	0.0659	0.0125	0.0784		1,045.7608	1,045.7608	0.1002		1,048.2654

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	lb/day										lb/day					
Off-Road	3.3402	33.7950	22.3323	0.0474		1.7227	1.7227		1.5849	1.5849		4,697.1698	4,697.1698	1.4861		4,734.3232
Total	3.3402	33.7950	22.3323	0.0474		1.7227	1.7227		1.5849	1.5849		4,697.1698	4,697.1698	1.4861		4,734.3232

Orange Chick-fil-A - Orange County, Summer

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	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	0.0150	0.4539	0.1200	1.0000e-003	0.0256	3.0700e-003	0.0286	7.3500e-003	2.9300e-003	0.0103		109.1876	109.1876	9.2200e-003		109.4180
Worker	0.0412	0.0270	0.3567	1.1300e-003	0.1118	7.5000e-004	0.1125	0.0296	6.9000e-004	0.0303		112.6140	112.6140	2.7700e-003		112.6833
Total	0.0562	0.4809	0.4767	2.1300e-003	0.1373	3.8200e-003	0.1411	0.0370	3.6200e-003	0.0406		221.8016	221.8016	0.0120		222.1012

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	3.3402	33.7950	22.3323	0.0474		1.7227	1.7227		1.5849	1.5849	0.0000	4,697.1698	4,697.1698	1.4861		4,734.3232
Total	3.3402	33.7950	22.3323	0.0474		1.7227	1.7227		1.5849	1.5849	0.0000	4,697.1698	4,697.1698	1.4861		4,734.3232

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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	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	0.0150	0.4539	0.1200	1.0000e-003	0.0208	3.0700e-003	0.0239	6.1900e-003	2.9300e-003	9.1200e-003		109.1876	109.1876	9.2200e-003		109.4180
Worker	0.0412	0.0270	0.3567	1.1300e-003	0.0865	7.5000e-004	0.0873	0.0234	6.9000e-004	0.0241		112.6140	112.6140	2.7700e-003		112.6833
Total	0.0562	0.4809	0.4767	2.1300e-003	0.1073	3.8200e-003	0.1111	0.0296	3.6200e-003	0.0333		221.8016	221.8016	0.0120		222.1012

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	lb/day										lb/day					
Off-Road	0.8300	7.8446	7.1478	0.0113		0.4425	0.4425		0.4106	0.4106		1,055.1823	1,055.1823	0.3016		1,062.7231
Paving	0.0512					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8812	7.8446	7.1478	0.0113		0.4425	0.4425		0.4106	0.4106		1,055.1823	1,055.1823	0.3016		1,062.7231

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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	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	0.0742	0.0486	0.6421	2.0300e-003	0.2012	1.3400e-003	0.2025	0.0534	1.2400e-003	0.0546		202.7053	202.7053	4.9800e-003		202.8298
Total	0.0742	0.0486	0.6421	2.0300e-003	0.2012	1.3400e-003	0.2025	0.0534	1.2400e-003	0.0546		202.7053	202.7053	4.9800e-003		202.8298

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	0.8300	7.8446	7.1478	0.0113		0.4425	0.4425		0.4106	0.4106	0.0000	1,055.1823	1,055.1823	0.3016		1,062.7231
Paving	0.0512					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8812	7.8446	7.1478	0.0113		0.4425	0.4425		0.4106	0.4106	0.0000	1,055.1823	1,055.1823	0.3016		1,062.7231

Orange Chick-fil-A - Orange County, Summer

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	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	0.0742	0.0486	0.6421	2.0300e-003	0.1557	1.3400e-003	0.1571	0.0422	1.2400e-003	0.0434		202.7053	202.7053	4.9800e-003		202.8298
Total	0.0742	0.0486	0.6421	2.0300e-003	0.1557	1.3400e-003	0.1571	0.0422	1.2400e-003	0.0434		202.7053	202.7053	4.9800e-003		202.8298

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	lb/day										lb/day					
Archit. Coating	4.3312					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	4.5976	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

Orange Chick-fil-A - Orange County, Summer

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	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	8.2400e-003	5.4000e-003	0.0714	2.3000e-004	0.0224	1.5000e-004	0.0225	5.9300e-003	1.4000e-004	6.0700e-003		22.5228	22.5228	5.5000e-004		22.5367
Total	8.2400e-003	5.4000e-003	0.0714	2.3000e-004	0.0224	1.5000e-004	0.0225	5.9300e-003	1.4000e-004	6.0700e-003		22.5228	22.5228	5.5000e-004		22.5367

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	4.3312					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	4.5976	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

Orange Chick-fil-A - Orange County, Summer

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	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	8.2400e-003	5.4000e-003	0.0714	2.3000e-004	0.0173	1.5000e-004	0.0175	4.6900e-003	1.4000e-004	4.8300e-003		22.5228	22.5228	5.5000e-004			22.5367
Total	8.2400e-003	5.4000e-003	0.0714	2.3000e-004	0.0173	1.5000e-004	0.0175	4.6900e-003	1.4000e-004	4.8300e-003		22.5228	22.5228	5.5000e-004			22.5367

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Orange Chick-fil-A - Orange County, Summer

	ROG	NOx	CO	SO2	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	2.1248	6.6271	17.1435	0.0466	3.5981	0.0544	3.6525	0.9622	0.0511	1.0133		4,728.1127	4,728.1127	0.2490		4,734.3370
Unmitigated	2.1248	6.6271	17.1435	0.0466	3.5981	0.0544	3.6525	0.9622	0.0511	1.0133		4,728.1127	4,728.1127	0.2490		4,734.3370

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant with Drive Thru	1,612.00	1,612.00	1612.00	1,696,447	1,696,447
Parking Lot	0.00	0.00	0.00		
Total	1,612.00	1,612.00	1,612.00	1,696,447	1,696,447

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
Fast Food Restaurant with Drive Thru	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
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
Fast Food Restaurant with Drive Thru	0.552373	0.044229	0.211123	0.119112	0.017503	0.005797	0.024455	0.015685	0.001637	0.001633	0.004830	0.000583	0.001041
Parking Lot	0.552373	0.044229	0.211123	0.119112	0.017503	0.005797	0.024455	0.015685	0.001637	0.001633	0.004830	0.000583	0.001041

Orange Chick-fil-A - Orange County, Summer

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	lb/day										lb/day					
NaturalGas Mitigated	0.0350	0.3178	0.2670	1.9100e-003		0.0242	0.0242		0.0242	0.0242		381.3947	381.3947	7.3100e-003	6.9900e-003	383.6612
NaturalGas Unmitigated	0.0350	0.3178	0.2670	1.9100e-003		0.0242	0.0242		0.0242	0.0242		381.3947	381.3947	7.3100e-003	6.9900e-003	383.6612

Orange Chick-fil-A - Orange County, Summer

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	lb/day										lb/day					
Fast Food Restaurant with Drive Thru	3241.86	0.0350	0.3178	0.2670	1.9100e-003		0.0242	0.0242		0.0242	0.0242		381.3947	381.3947	7.3100e-003	6.9900e-003	383.6612
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		0.0350	0.3178	0.2670	1.9100e-003		0.0242	0.0242		0.0242	0.0242		381.3947	381.3947	7.3100e-003	6.9900e-003	383.6612

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					
Fast Food Restaurant with Drive Thru	3.24186	0.0350	0.3178	0.2670	1.9100e-003		0.0242	0.0242		0.0242	0.0242		381.3947	381.3947	7.3100e-003	6.9900e-003	383.6612
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		0.0350	0.3178	0.2670	1.9100e-003		0.0242	0.0242		0.0242	0.0242		381.3947	381.3947	7.3100e-003	6.9900e-003	383.6612

6.0 Area Detail

6.1 Mitigation Measures Area

Orange Chick-fil-A - Orange County, Summer

	ROG	NOx	CO	SO2	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	0.1107	5.0000e-005	5.4200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123
Unmitigated	0.1107	5.0000e-005	5.4200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123

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	lb/day										lb/day					
Architectural Coating	0.0131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1000e-004	5.0000e-005	5.4200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123
Total	0.1107	5.0000e-005	5.4200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123

Orange Chick-fil-A - Orange County, Summer

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	0.0131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1000e-004	5.0000e-005	5.4200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123
Total	0.1107	5.0000e-005	5.4200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

Orange Chick-fil-A - Orange County, Summer

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

Orange Chick-fil-A - Orange County, Winter

Orange Chick-fil-A
Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Fast Food Restaurant with Drive Thru	4.56	1000sqft	0.10	4,563.00	0
Parking Lot	48.00	Space	0.43	19,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2019
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

Orange Chick-fil-A - Orange County, Winter

Project Characteristics -

Land Use - Per construction questionnaire and project description.

Construction Phase - Anticipated construction schedule.

Off-road Equipment -

Off-road Equipment - Per construction questionnaire.

Off-road Equipment -

Grading - Per email from applicant.

Demolition -

Vehicle Trips - Per traffic study.

Construction Off-road Equipment Mitigation - Per SCAQMD standards and regulations.

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	11.00
tblConstructionPhase	NumDays	100.00	110.00
tblConstructionPhase	NumDays	10.00	11.00
tblConstructionPhase	NumDays	2.00	11.00
tblConstructionPhase	NumDays	5.00	22.00
tblConstructionPhase	PhaseEndDate	10/17/2019	12/2/2019
tblConstructionPhase	PhaseEndDate	10/3/2019	12/2/2019
tblConstructionPhase	PhaseEndDate	5/14/2019	5/15/2019
tblConstructionPhase	PhaseEndDate	5/16/2019	5/30/2019
tblConstructionPhase	PhaseEndDate	10/10/2019	7/1/2019
tblConstructionPhase	PhaseStartDate	10/11/2019	11/18/2019

Orange Chick-fil-A - Orange County, Winter

tblConstructionPhase	PhaseStartDate	5/17/2019	7/2/2019
tblConstructionPhase	PhaseStartDate	5/15/2019	5/16/2019
tblConstructionPhase	PhaseStartDate	10/4/2019	5/31/2019
tblGrading	MaterialExported	0.00	950.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblVehicleTrips	ST_TR	722.03	353.28
tblVehicleTrips	SU_TR	542.72	353.28
tblVehicleTrips	WD_TR	496.12	353.28

2.0 Emissions Summary

Orange Chick-fil-A - Orange County, Winter

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	lb/day										lb/day					
Area	0.1107	5.0000e-005	5.4200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123
Energy	0.0350	0.3178	0.2670	1.9100e-003		0.0242	0.0242		0.0242	0.0242		381.3947	381.3947	7.3100e-003	6.9900e-003	383.6612
Mobile	2.1035	6.7174	17.4190	0.0445	3.5981	0.0552	3.6533	0.9622	0.0518	1.0140		4,508.2255	4,508.2255	0.2552		4,514.6050
Total	2.2492	7.0353	17.6914	0.0464	3.5981	0.0793	3.6774	0.9622	0.0760	1.0382		4,889.6318	4,889.6318	0.2625	6.9900e-003	4,898.2785

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	0.1107	5.0000e-005	5.4200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123
Energy	0.0350	0.3178	0.2670	1.9100e-003		0.0242	0.0242		0.0242	0.0242		381.3947	381.3947	7.3100e-003	6.9900e-003	383.6612
Mobile	2.1035	6.7174	17.4190	0.0445	3.5981	0.0552	3.6533	0.9622	0.0518	1.0140		4,508.2255	4,508.2255	0.2552		4,514.6050
Total	2.2492	7.0353	17.6914	0.0464	3.5981	0.0793	3.6774	0.9622	0.0760	1.0382		4,889.6318	4,889.6318	0.2625	6.9900e-003	4,898.2785

Orange Chick-fil-A - Orange County, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/1/2019	5/15/2019	5	11	
2	Grading	Grading	5/16/2019	5/30/2019	5	11	
3	Building Construction	Building Construction	7/2/2019	12/2/2019	5	110	
4	Paving	Paving	5/31/2019	7/1/2019	5	22	
5	Architectural Coating	Architectural Coating	11/18/2019	12/2/2019	5	11	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.43

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 6,845; Non-Residential Outdoor: 2,282; Striped Parking Area: 1,152 (Architectural Coating – sqft)

OffRoad Equipment

Orange Chick-fil-A - Orange County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Off-Highway Trucks	2	8.00	402	0.38
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Other Construction Equipment	1	8.00	172	0.42
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Trenchers	1	8.00	78	0.50
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	471.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	119.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Orange Chick-fil-A - Orange County, Winter

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 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	lb/day										lb/day					
Fugitive Dust					9.2619	0.0000	9.2619	1.4023	0.0000	1.4023			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.9530	8.6039	7.6917	0.0120	9.2619	0.5371	9.7990	1.4023	0.5125	1.9148		1,159.6570	1,159.6570	0.2211		1,165.1847

Orange Chick-fil-A - Orange County, Winter

3.2 Demolition - 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	lb/day										lb/day					
Hauling	0.3652	12.8588	3.2212	0.0327	0.7456	0.0498	0.7954	0.2041	0.0477	0.2518		3,638.648 2	3,638.648 2	0.3955		3,648.535 3
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	0.0465	0.0297	0.3303	1.0700e-003	0.1118	7.5000e-004	0.1125	0.0296	6.9000e-004	0.0303		106.5774	106.5774	2.6300e-003		106.6430
Total	0.4117	12.8885	3.5514	0.0338	0.8574	0.0506	0.9079	0.2338	0.0484	0.2821		3,745.225 6	3,745.225 6	0.3981		3,755.178 3

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					3.4315	0.0000	3.4315	0.5196	0.0000	0.5196			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125	0.0000	1,159.657 0	1,159.657 0	0.2211		1,165.184 7
Total	0.9530	8.6039	7.6917	0.0120	3.4315	0.5371	3.9686	0.5196	0.5125	1.0320	0.0000	1,159.657 0	1,159.657 0	0.2211		1,165.184 7

Orange Chick-fil-A - Orange County, Winter

3.2 Demolition - 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	lb/day										lb/day					
Hauling	0.3652	12.8588	3.2212	0.0327	0.5984	0.0498	0.6482	0.1680	0.0477	0.2156		3,638.648 2	3,638.648 2	0.3955		3,648.535 3
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	0.0465	0.0297	0.3303	1.0700e-003	0.0865	7.5000e-004	0.0873	0.0234	6.9000e-004	0.0241		106.5774	106.5774	2.6300e-003		106.6430
Total	0.4117	12.8885	3.5514	0.0338	0.6849	0.0506	0.7355	0.1914	0.0484	0.2398		3,745.225 6	3,745.225 6	0.3981		3,755.178 3

3.3 Grading - 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	lb/day										lb/day					
Fugitive Dust					0.7625	0.0000	0.7625	0.4153	0.0000	0.4153			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.657 0	1,159.657 0	0.2211		1,165.184 7
Total	0.9530	8.6039	7.6917	0.0120	0.7625	0.5371	1.2996	0.4153	0.5125	0.9277		1,159.657 0	1,159.657 0	0.2211		1,165.184 7

Orange Chick-fil-A - Orange County, Winter

3.3 Grading - 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	lb/day										lb/day					
Hauling	0.0923	3.2488	0.8138	8.2700e-003	0.1884	0.0126	0.2010	0.0516	0.0120	0.0636		919.3188	919.3188	0.0999		921.8168
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	0.0465	0.0297	0.3303	1.0700e-003	0.1118	7.5000e-004	0.1125	0.0296	6.9000e-004	0.0303		106.5774	106.5774	2.6300e-003		106.6430
Total	0.1388	3.2785	1.1441	9.3400e-003	0.3002	0.0133	0.3135	0.0812	0.0127	0.0939		1,025.8961	1,025.8961	0.1026		1,028.4598

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					0.2825	0.0000	0.2825	0.1539	0.0000	0.1539			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.9530	8.6039	7.6917	0.0120	0.2825	0.5371	0.8196	0.1539	0.5125	0.6663	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847

Orange Chick-fil-A - Orange County, Winter

3.3 Grading - 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	lb/day										lb/day					
Hauling	0.0923	3.2488	0.8138	8.2700e-003	0.1512	0.0126	0.1638	0.0424	0.0120	0.0545		919.3188	919.3188	0.0999		921.8168
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	0.0465	0.0297	0.3303	1.0700e-003	0.0865	7.5000e-004	0.0873	0.0234	6.9000e-004	0.0241		106.5774	106.5774	2.6300e-003		106.6430
Total	0.1388	3.2785	1.1441	9.3400e-003	0.2377	0.0133	0.2510	0.0659	0.0127	0.0786		1,025.8961	1,025.8961	0.1026		1,028.4598

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	lb/day										lb/day					
Off-Road	3.3402	33.7950	22.3323	0.0474		1.7227	1.7227		1.5849	1.5849		4,697.1698	4,697.1698	1.4861		4,734.3232
Total	3.3402	33.7950	22.3323	0.0474		1.7227	1.7227		1.5849	1.5849		4,697.1698	4,697.1698	1.4861		4,734.3232

Orange Chick-fil-A - Orange County, Winter

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	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	0.0156	0.4544	0.1317	9.8000e-004	0.0256	3.1200e-003	0.0287	7.3500e-003	2.9900e-003	0.0103		106.5421	106.5421	9.7000e-003		106.7847
Worker	0.0465	0.0297	0.3303	1.0700e-003	0.1118	7.5000e-004	0.1125	0.0296	6.9000e-004	0.0303		106.5774	106.5774	2.6300e-003		106.6430
Total	0.0621	0.4841	0.4620	2.0500e-003	0.1373	3.8700e-003	0.1412	0.0370	3.6800e-003	0.0407		213.1194	213.1194	0.0123		213.4277

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	3.3402	33.7950	22.3323	0.0474		1.7227	1.7227		1.5849	1.5849	0.0000	4,697.1698	4,697.1698	1.4861		4,734.3232
Total	3.3402	33.7950	22.3323	0.0474		1.7227	1.7227		1.5849	1.5849	0.0000	4,697.1698	4,697.1698	1.4861		4,734.3232

Orange Chick-fil-A - Orange County, Winter

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	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	0.0156	0.4544	0.1317	9.8000e-004	0.0208	3.1200e-003	0.0239	6.1900e-003	2.9900e-003	9.1800e-003		106.5421	106.5421	9.7000e-003		106.7847
Worker	0.0465	0.0297	0.3303	1.0700e-003	0.0865	7.5000e-004	0.0873	0.0234	6.9000e-004	0.0241		106.5774	106.5774	2.6300e-003		106.6430
Total	0.0621	0.4841	0.4620	2.0500e-003	0.1073	3.8700e-003	0.1112	0.0296	3.6800e-003	0.0333		213.1194	213.1194	0.0123		213.4277

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	lb/day										lb/day					
Off-Road	0.8300	7.8446	7.1478	0.0113		0.4425	0.4425		0.4106	0.4106		1,055.1823	1,055.1823	0.3016		1,062.7231
Paving	0.0512					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8812	7.8446	7.1478	0.0113		0.4425	0.4425		0.4106	0.4106		1,055.1823	1,055.1823	0.3016		1,062.7231

Orange Chick-fil-A - Orange County, Winter

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	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	0.0837	0.0535	0.5945	1.9200e-003	0.2012	1.3400e-003	0.2025	0.0534	1.2400e-003	0.0546		191.8393	191.8393	4.7300e-003		191.9574
Total	0.0837	0.0535	0.5945	1.9200e-003	0.2012	1.3400e-003	0.2025	0.0534	1.2400e-003	0.0546		191.8393	191.8393	4.7300e-003		191.9574

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	0.8300	7.8446	7.1478	0.0113		0.4425	0.4425		0.4106	0.4106	0.0000	1,055.1823	1,055.1823	0.3016		1,062.7231
Paving	0.0512					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8812	7.8446	7.1478	0.0113		0.4425	0.4425		0.4106	0.4106	0.0000	1,055.1823	1,055.1823	0.3016		1,062.7231

Orange Chick-fil-A - Orange County, Winter

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	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	0.0837	0.0535	0.5945	1.9200e-003	0.1557	1.3400e-003	0.1571	0.0422	1.2400e-003	0.0434		191.8393	191.8393	4.7300e-003		191.9574
Total	0.0837	0.0535	0.5945	1.9200e-003	0.1557	1.3400e-003	0.1571	0.0422	1.2400e-003	0.0434		191.8393	191.8393	4.7300e-003		191.9574

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	lb/day										lb/day					
Archit. Coating	4.3312					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	4.5976	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

Orange Chick-fil-A - Orange County, Winter

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	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	9.3000e-003	5.9400e-003	0.0661	2.1000e-004	0.0224	1.5000e-004	0.0225	5.9300e-003	1.4000e-004	6.0700e-003		21.3155	21.3155	5.3000e-004		21.3286
Total	9.3000e-003	5.9400e-003	0.0661	2.1000e-004	0.0224	1.5000e-004	0.0225	5.9300e-003	1.4000e-004	6.0700e-003		21.3155	21.3155	5.3000e-004		21.3286

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	4.3312					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	4.5976	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

Orange Chick-fil-A - Orange County, Winter

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	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	9.3000e-003	5.9400e-003	0.0661	2.1000e-004	0.0173	1.5000e-004	0.0175	4.6900e-003	1.4000e-004	4.8300e-003		21.3155	21.3155	5.3000e-004			21.3286
Total	9.3000e-003	5.9400e-003	0.0661	2.1000e-004	0.0173	1.5000e-004	0.0175	4.6900e-003	1.4000e-004	4.8300e-003		21.3155	21.3155	5.3000e-004			21.3286

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Orange Chick-fil-A - Orange County, Winter

	ROG	NOx	CO	SO2	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	2.1035	6.7174	17.4190	0.0445	3.5981	0.0552	3.6533	0.9622	0.0518	1.0140		4,508.2255	4,508.2255	0.2552		4,514.6050
Unmitigated	2.1035	6.7174	17.4190	0.0445	3.5981	0.0552	3.6533	0.9622	0.0518	1.0140		4,508.2255	4,508.2255	0.2552		4,514.6050

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant with Drive Thru	1,612.00	1,612.00	1612.00	1,696,447	1,696,447
Parking Lot	0.00	0.00	0.00		
Total	1,612.00	1,612.00	1,612.00	1,696,447	1,696,447

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
Fast Food Restaurant with Drive Thru	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
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
Fast Food Restaurant with Drive Thru	0.552373	0.044229	0.211123	0.119112	0.017503	0.005797	0.024455	0.015685	0.001637	0.001633	0.004830	0.000583	0.001041
Parking Lot	0.552373	0.044229	0.211123	0.119112	0.017503	0.005797	0.024455	0.015685	0.001637	0.001633	0.004830	0.000583	0.001041

Orange Chick-fil-A - Orange County, Winter

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	lb/day										lb/day					
NaturalGas Mitigated	0.0350	0.3178	0.2670	1.9100e-003		0.0242	0.0242		0.0242	0.0242		381.3947	381.3947	7.3100e-003	6.9900e-003	383.6612
NaturalGas Unmitigated	0.0350	0.3178	0.2670	1.9100e-003		0.0242	0.0242		0.0242	0.0242		381.3947	381.3947	7.3100e-003	6.9900e-003	383.6612

Orange Chick-fil-A - Orange County, Winter

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	lb/day										lb/day					
Fast Food Restaurant with Drive Thru	3241.86	0.0350	0.3178	0.2670	1.9100e-003		0.0242	0.0242		0.0242	0.0242		381.3947	381.3947	7.3100e-003	6.9900e-003	383.6612
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		0.0350	0.3178	0.2670	1.9100e-003		0.0242	0.0242		0.0242	0.0242		381.3947	381.3947	7.3100e-003	6.9900e-003	383.6612

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					
Fast Food Restaurant with Drive Thru	3.24186	0.0350	0.3178	0.2670	1.9100e-003		0.0242	0.0242		0.0242	0.0242		381.3947	381.3947	7.3100e-003	6.9900e-003	383.6612
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		0.0350	0.3178	0.2670	1.9100e-003		0.0242	0.0242		0.0242	0.0242		381.3947	381.3947	7.3100e-003	6.9900e-003	383.6612

6.0 Area Detail

6.1 Mitigation Measures Area

Orange Chick-fil-A - Orange County, Winter

	ROG	NOx	CO	SO2	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	0.1107	5.0000e-005	5.4200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123
Unmitigated	0.1107	5.0000e-005	5.4200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123

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	lb/day										lb/day					
Architectural Coating	0.0131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1000e-004	5.0000e-005	5.4200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123
Total	0.1107	5.0000e-005	5.4200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123

Orange Chick-fil-A - Orange County, Winter

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	0.0131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1000e-004	5.0000e-005	5.4200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123
Total	0.1107	5.0000e-005	5.4200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

Orange Chick-fil-A - Orange County, Winter

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

Orange Chick-fil-A - Orange County, Annual

**Orange Chick-fil-A
Orange County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Fast Food Restaurant with Drive Thru	4.56	1000sqft	0.10	4,563.00	0
Parking Lot	48.00	Space	0.43	19,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2019
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

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Project Characteristics -

Land Use - Per construction questionnaire and project description.

Construction Phase - Anticipated construction schedule.

Off-road Equipment -

Off-road Equipment - Per construction questionnaire.

Off-road Equipment -

Grading - Per email from applicant.

Demolition -

Vehicle Trips - Per traffic study.

Construction Off-road Equipment Mitigation - Per SCAQMD standards and regulations.

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	11.00
tblConstructionPhase	NumDays	100.00	110.00
tblConstructionPhase	NumDays	10.00	11.00
tblConstructionPhase	NumDays	2.00	11.00
tblConstructionPhase	NumDays	5.00	22.00
tblConstructionPhase	PhaseEndDate	10/17/2019	12/2/2019
tblConstructionPhase	PhaseEndDate	10/3/2019	12/2/2019
tblConstructionPhase	PhaseEndDate	5/14/2019	5/15/2019
tblConstructionPhase	PhaseEndDate	5/16/2019	5/30/2019
tblConstructionPhase	PhaseEndDate	10/10/2019	7/1/2019
tblConstructionPhase	PhaseStartDate	10/11/2019	11/18/2019

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tblConstructionPhase	PhaseStartDate	5/17/2019	7/2/2019
tblConstructionPhase	PhaseStartDate	5/15/2019	5/16/2019
tblConstructionPhase	PhaseStartDate	10/4/2019	5/31/2019
tblGrading	MaterialExported	0.00	950.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblVehicleTrips	ST_TR	722.03	353.28
tblVehicleTrips	SU_TR	542.72	353.28
tblVehicleTrips	WD_TR	496.12	353.28

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	5-1-2019	7-31-2019	0.6954	0.6954
2	8-1-2019	9-30-2019	0.8207	0.8207
		Highest	0.8207	0.8207

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	0.0202	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-003	1.3000e-003	0.0000	0.0000	1.3900e-003
Energy	6.3800e-003	0.0580	0.0487	3.5000e-004		4.4100e-003	4.4100e-003		4.4100e-003	4.4100e-003	0.0000	118.3225	118.3225	3.4900e-003	1.6300e-003	118.8951
Mobile	0.3663	1.2413	3.1665	8.2100e-003	0.6433	9.9500e-003	0.6533	0.1723	9.3400e-003	0.1816	0.0000	754.9942	754.9942	0.0416	0.0000	756.0339
Waste						0.0000	0.0000		0.0000	0.0000	10.6631	0.0000	10.6631	0.6302	0.0000	26.4174
Water						0.0000	0.0000		0.0000	0.0000	0.4391	6.0551	6.4942	0.0454	1.1200e-003	7.9608
Total	0.3929	1.2994	3.2159	8.5600e-003	0.6433	0.0144	0.6577	0.1723	0.0138	0.1860	11.1022	879.3731	890.4754	0.7206	2.7500e-003	909.3086

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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	0.0202	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-003	1.3000e-003	0.0000	0.0000	1.3900e-003
Energy	6.3800e-003	0.0580	0.0487	3.5000e-004		4.4100e-003	4.4100e-003		4.4100e-003	4.4100e-003	0.0000	118.3225	118.3225	3.4900e-003	1.6300e-003	118.8951
Mobile	0.3663	1.2413	3.1665	8.2100e-003	0.6433	9.9500e-003	0.6533	0.1723	9.3400e-003	0.1816	0.0000	754.9942	754.9942	0.0416	0.0000	756.0339
Waste						0.0000	0.0000		0.0000	0.0000	5.3316	0.0000	5.3316	0.3151	0.0000	13.2087
Water						0.0000	0.0000		0.0000	0.0000	0.4391	6.0551	6.4942	0.0454	1.1200e-003	7.9608
Total	0.3929	1.2994	3.2159	8.5600e-003	0.6433	0.0144	0.6577	0.1723	0.0138	0.1860	5.7707	879.3731	885.1438	0.4055	2.7500e-003	896.0999

	ROG	NOx	CO	SO2	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	48.02	0.00	0.60	43.72	0.00	1.45

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	Demolition	Demolition	5/1/2019	5/15/2019	5	11	
2	Grading	Grading	5/16/2019	5/30/2019	5	11	
3	Building Construction	Building Construction	7/2/2019	12/2/2019	5	110	
4	Paving	Paving	5/31/2019	7/1/2019	5	22	
5	Architectural Coating	Architectural Coating	11/18/2019	12/2/2019	5	11	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.43

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 6,845; Non-Residential Outdoor: 2,282; Striped Parking Area: 1,152 (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
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Off-Highway Trucks	2	8.00	402	0.38
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Other Construction Equipment	1	8.00	172	0.42
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Trenchers	1	8.00	78	0.50
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	471.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	119.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 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					
Fugitive Dust					0.0509	0.0000	0.0509	7.7100e-003	0.0000	7.7100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.2400e-003	0.0473	0.0423	7.0000e-005		2.9500e-003	2.9500e-003		2.8200e-003	2.8200e-003	0.0000	5.7861	5.7861	1.1000e-003	0.0000	5.8137
Total	5.2400e-003	0.0473	0.0423	7.0000e-005	0.0509	2.9500e-003	0.0539	7.7100e-003	2.8200e-003	0.0105	0.0000	5.7861	5.7861	1.1000e-003	0.0000	5.8137

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3.2 Demolition - 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	1.9800e-003	0.0721	0.0172	1.8000e-004	4.0400e-003	2.7000e-004	4.3100e-003	1.1100e-003	2.6000e-004	1.3700e-003	0.0000	18.3135	18.3135	1.9500e-003	0.0000	18.3621
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	2.3000e-004	1.7000e-004	1.8600e-003	1.0000e-005	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5399	0.5399	1.0000e-005	0.0000	0.5402
Total	2.2100e-003	0.0723	0.0190	1.9000e-004	4.6400e-003	2.7000e-004	4.9200e-003	1.2700e-003	2.6000e-004	1.5300e-003	0.0000	18.8534	18.8534	1.9600e-003	0.0000	18.9023

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					0.0189	0.0000	0.0189	2.8600e-003	0.0000	2.8600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.2400e-003	0.0473	0.0423	7.0000e-005		2.9500e-003	2.9500e-003		2.8200e-003	2.8200e-003	0.0000	5.7861	5.7861	1.1000e-003	0.0000	5.8137
Total	5.2400e-003	0.0473	0.0423	7.0000e-005	0.0189	2.9500e-003	0.0218	2.8600e-003	2.8200e-003	5.6800e-003	0.0000	5.7861	5.7861	1.1000e-003	0.0000	5.8137

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3.2 Demolition - 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	1.9800e-003	0.0721	0.0172	1.8000e-004	3.2400e-003	2.7000e-004	3.5100e-003	9.1000e-004	2.6000e-004	1.1700e-003	0.0000	18.3135	18.3135	1.9500e-003	0.0000	18.3621
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	2.3000e-004	1.7000e-004	1.8600e-003	1.0000e-005	4.7000e-004	0.0000	4.7000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.5399	0.5399	1.0000e-005	0.0000	0.5402
Total	2.2100e-003	0.0723	0.0190	1.9000e-004	3.7100e-003	2.7000e-004	3.9800e-003	1.0400e-003	2.6000e-004	1.3000e-003	0.0000	18.8534	18.8534	1.9600e-003	0.0000	18.9023

3.3 Grading - 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					
Fugitive Dust					4.1900e-003	0.0000	4.1900e-003	2.2800e-003	0.0000	2.2800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.2400e-003	0.0473	0.0423	7.0000e-005		2.9500e-003	2.9500e-003		2.8200e-003	2.8200e-003	0.0000	5.7861	5.7861	1.1000e-003	0.0000	5.8137
Total	5.2400e-003	0.0473	0.0423	7.0000e-005	4.1900e-003	2.9500e-003	7.1400e-003	2.2800e-003	2.8200e-003	5.1000e-003	0.0000	5.7861	5.7861	1.1000e-003	0.0000	5.8137

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3.3 Grading - 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	5.0000e-004	0.0182	4.3400e-003	5.0000e-005	1.0200e-003	7.0000e-005	1.0900e-003	2.8000e-004	7.0000e-005	3.5000e-004	0.0000	4.6270	4.6270	4.9000e-004	0.0000	4.6393
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	2.3000e-004	1.7000e-004	1.8600e-003	1.0000e-005	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5399	0.5399	1.0000e-005	0.0000	0.5402
Total	7.3000e-004	0.0184	6.2000e-003	6.0000e-005	1.6200e-003	7.0000e-005	1.7000e-003	4.4000e-004	7.0000e-005	5.1000e-004	0.0000	5.1669	5.1669	5.0000e-004	0.0000	5.1795

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5500e-003	0.0000	1.5500e-003	8.5000e-004	0.0000	8.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.2400e-003	0.0473	0.0423	7.0000e-005		2.9500e-003	2.9500e-003		2.8200e-003	2.8200e-003	0.0000	5.7861	5.7861	1.1000e-003	0.0000	5.8137
Total	5.2400e-003	0.0473	0.0423	7.0000e-005	1.5500e-003	2.9500e-003	4.5000e-003	8.5000e-004	2.8200e-003	3.6700e-003	0.0000	5.7861	5.7861	1.1000e-003	0.0000	5.8137

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3.3 Grading - 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	5.0000e-004	0.0182	4.3400e-003	5.0000e-005	8.2000e-004	7.0000e-005	8.9000e-004	2.3000e-004	7.0000e-005	3.0000e-004	0.0000	4.6270	4.6270	4.9000e-004	0.0000	4.6393
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	2.3000e-004	1.7000e-004	1.8600e-003	1.0000e-005	4.7000e-004	0.0000	4.7000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.5399	0.5399	1.0000e-005	0.0000	0.5402
Total	7.3000e-004	0.0184	6.2000e-003	6.0000e-005	1.2900e-003	7.0000e-005	1.3600e-003	3.6000e-004	7.0000e-005	4.3000e-004	0.0000	5.1669	5.1669	5.0000e-004	0.0000	5.1795

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	0.1837	1.8587	1.2283	2.6100e-003		0.0948	0.0948		0.0872	0.0872	0.0000	234.3660	234.3660	0.0742	0.0000	236.2198
Total	0.1837	1.8587	1.2283	2.6100e-003		0.0948	0.0948		0.0872	0.0872	0.0000	234.3660	234.3660	0.0742	0.0000	236.2198

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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	8.4000e-004	0.0255	6.9300e-003	5.0000e-005	1.3900e-003	1.7000e-004	1.5600e-003	4.0000e-004	1.6000e-004	5.6000e-004	0.0000	5.3925	5.3925	4.7000e-004	0.0000	5.4043
Worker	2.3000e-003	1.6800e-003	0.0186	6.0000e-005	6.0400e-003	4.0000e-005	6.0800e-003	1.6000e-003	4.0000e-005	1.6400e-003	0.0000	5.3989	5.3989	1.3000e-004	0.0000	5.4022
Total	3.1400e-003	0.0271	0.0255	1.1000e-004	7.4300e-003	2.1000e-004	7.6400e-003	2.0000e-003	2.0000e-004	2.2000e-003	0.0000	10.7914	10.7914	6.0000e-004	0.0000	10.8065

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	0.1837	1.8587	1.2283	2.6100e-003		0.0948	0.0948		0.0872	0.0872	0.0000	234.3658	234.3658	0.0742	0.0000	236.2195
Total	0.1837	1.8587	1.2283	2.6100e-003		0.0948	0.0948		0.0872	0.0872	0.0000	234.3658	234.3658	0.0742	0.0000	236.2195

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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	8.4000e-004	0.0255	6.9300e-003	5.0000e-005	1.1300e-003	1.7000e-004	1.3000e-003	3.4000e-004	1.6000e-004	5.0000e-004	0.0000	5.3925	5.3925	4.7000e-004	0.0000	5.4043
Worker	2.3000e-003	1.6800e-003	0.0186	6.0000e-005	4.6800e-003	4.0000e-005	4.7200e-003	1.2700e-003	4.0000e-005	1.3100e-003	0.0000	5.3989	5.3989	1.3000e-004	0.0000	5.4022
Total	3.1400e-003	0.0271	0.0255	1.1000e-004	5.8100e-003	2.1000e-004	6.0200e-003	1.6100e-003	2.0000e-004	1.8100e-003	0.0000	10.7914	10.7914	6.0000e-004	0.0000	10.8065

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	9.1300e-003	0.0863	0.0786	1.2000e-004		4.8700e-003	4.8700e-003		4.5200e-003	4.5200e-003	0.0000	10.5297	10.5297	3.0100e-003	0.0000	10.6050
Paving	5.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.6900e-003	0.0863	0.0786	1.2000e-004		4.8700e-003	4.8700e-003		4.5200e-003	4.5200e-003	0.0000	10.5297	10.5297	3.0100e-003	0.0000	10.6050

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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	8.3000e-004	6.0000e-004	6.7000e-003	2.0000e-005	2.1700e-003	1.0000e-005	2.1900e-003	5.8000e-004	1.0000e-005	5.9000e-004	0.0000	1.9436	1.9436	5.0000e-005	0.0000	1.9448
Total	8.3000e-004	6.0000e-004	6.7000e-003	2.0000e-005	2.1700e-003	1.0000e-005	2.1900e-003	5.8000e-004	1.0000e-005	5.9000e-004	0.0000	1.9436	1.9436	5.0000e-005	0.0000	1.9448

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	9.1300e-003	0.0863	0.0786	1.2000e-004		4.8700e-003	4.8700e-003		4.5200e-003	4.5200e-003	0.0000	10.5297	10.5297	3.0100e-003	0.0000	10.6049
Paving	5.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.6900e-003	0.0863	0.0786	1.2000e-004		4.8700e-003	4.8700e-003		4.5200e-003	4.5200e-003	0.0000	10.5297	10.5297	3.0100e-003	0.0000	10.6049

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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	8.3000e-004	6.0000e-004	6.7000e-003	2.0000e-005	1.6800e-003	1.0000e-005	1.7000e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.9436	1.9436	5.0000e-005	0.0000	1.9448
Total	8.3000e-004	6.0000e-004	6.7000e-003	2.0000e-005	1.6800e-003	1.0000e-005	1.7000e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.9436	1.9436	5.0000e-005	0.0000	1.9448

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	0.0238					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4700e-003	0.0101	0.0101	2.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	1.4043	1.4043	1.2000e-004	0.0000	1.4073
Total	0.0253	0.0101	0.0101	2.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	1.4043	1.4043	1.2000e-004	0.0000	1.4073

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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	5.0000e-005	3.0000e-005	3.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1080	0.1080	0.0000	0.0000	0.1080
Total	5.0000e-005	3.0000e-005	3.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1080	0.1080	0.0000	0.0000	0.1080

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	0.0238					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4700e-003	0.0101	0.0101	2.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	1.4043	1.4043	1.2000e-004	0.0000	1.4073
Total	0.0253	0.0101	0.0101	2.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	1.4043	1.4043	1.2000e-004	0.0000	1.4073

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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	5.0000e-005	3.0000e-005	3.7000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1080	0.1080	0.0000	0.0000	0.1080
Total	5.0000e-005	3.0000e-005	3.7000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1080	0.1080	0.0000	0.0000	0.1080

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	0.3663	1.2413	3.1665	8.2100e-003	0.6433	9.9500e-003	0.6533	0.1723	9.3400e-003	0.1816	0.0000	754.9942	754.9942	0.0416	0.0000	756.0339
Unmitigated	0.3663	1.2413	3.1665	8.2100e-003	0.6433	9.9500e-003	0.6533	0.1723	9.3400e-003	0.1816	0.0000	754.9942	754.9942	0.0416	0.0000	756.0339

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant with Drive Thru	1,612.00	1,612.00	1612.00	1,696,447	1,696,447
Parking Lot	0.00	0.00	0.00		
Total	1,612.00	1,612.00	1,612.00	1,696,447	1,696,447

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
Fast Food Restaurant with Drive Thru	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
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
Fast Food Restaurant with Drive Thru	0.552373	0.044229	0.211123	0.119112	0.017503	0.005797	0.024455	0.015685	0.001637	0.001633	0.004830	0.000583	0.001041
Parking Lot	0.552373	0.044229	0.211123	0.119112	0.017503	0.005797	0.024455	0.015685	0.001637	0.001633	0.004830	0.000583	0.001041

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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	55.1783	55.1783	2.2800e-003	4.7000e-004	55.3757
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	55.1783	55.1783	2.2800e-003	4.7000e-004	55.3757
NaturalGas Mitigated	6.3800e-003	0.0580	0.0487	3.5000e-004		4.4100e-003	4.4100e-003		4.4100e-003	4.4100e-003	0.0000	63.1442	63.1442	1.2100e-003	1.1600e-003	63.5194
NaturalGas Unmitigated	6.3800e-003	0.0580	0.0487	3.5000e-004		4.4100e-003	4.4100e-003		4.4100e-003	4.4100e-003	0.0000	63.1442	63.1442	1.2100e-003	1.1600e-003	63.5194

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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					
Fast Food Restaurant with Drive Thru	1.18328e+006	6.3800e-003	0.0580	0.0487	3.5000e-004		4.4100e-003	4.4100e-003		4.4100e-003	4.4100e-003	0.0000	63.1442	63.1442	1.2100e-003	1.1600e-003	63.5194
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		6.3800e-003	0.0580	0.0487	3.5000e-004		4.4100e-003	4.4100e-003		4.4100e-003	4.4100e-003	0.0000	63.1442	63.1442	1.2100e-003	1.1600e-003	63.5194

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					
Fast Food Restaurant with Drive Thru	1.18328e+006	6.3800e-003	0.0580	0.0487	3.5000e-004		4.4100e-003	4.4100e-003		4.4100e-003	4.4100e-003	0.0000	63.1442	63.1442	1.2100e-003	1.1600e-003	63.5194
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		6.3800e-003	0.0580	0.0487	3.5000e-004		4.4100e-003	4.4100e-003		4.4100e-003	4.4100e-003	0.0000	63.1442	63.1442	1.2100e-003	1.1600e-003	63.5194

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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			
Fast Food Restaurant with Drive Thru	166458	53.0372	2.1900e-003	4.5000e-004	53.2269
Parking Lot	6720	2.1411	9.0000e-005	2.0000e-005	2.1488
Total		55.1783	2.2800e-003	4.7000e-004	55.3757

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant with Drive Thru	166458	53.0372	2.1900e-003	4.5000e-004	53.2269
Parking Lot	6720	2.1411	9.0000e-005	2.0000e-005	2.1488
Total		55.1783	2.2800e-003	4.7000e-004	55.3757

6.0 Area Detail

6.1 Mitigation Measures Area

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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	0.0202	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-003	1.3000e-003	0.0000	0.0000	1.3900e-003
Unmitigated	0.0202	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-003	1.3000e-003	0.0000	0.0000	1.3900e-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	2.3800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0177					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-005	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-003	1.3000e-003	0.0000	0.0000	1.3900e-003
Total	0.0202	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-003	1.3000e-003	0.0000	0.0000	1.3900e-003

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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	2.3800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0177					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-005	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-003	1.3000e-003	0.0000	0.0000	1.3900e-003
Total	0.0202	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-003	1.3000e-003	0.0000	0.0000	1.3900e-003

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.4942	0.0454	1.1200e-003	7.9608
Unmitigated	6.4942	0.0454	1.1200e-003	7.9608

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant with Drive Thru	1.38411 / 0.0883477	6.4942	0.0454	1.1200e-003	7.9608
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		6.4942	0.0454	1.1200e-003	7.9608

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant with Drive Thru	1.38411 / 0.0883477	6.4942	0.0454	1.1200e-003	7.9608
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		6.4942	0.0454	1.1200e-003	7.9608

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	5.3316	0.3151	0.0000	13.2087
Unmitigated	10.6631	0.6302	0.0000	26.4174

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	52.53	10.6631	0.6302	0.0000	26.4174
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		10.6631	0.6302	0.0000	26.4174

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	26.265	5.3316	0.3151	0.0000	13.2087
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		5.3316	0.3151	0.0000	13.2087

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

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