

Appendix A. Air Quality and GHG Modeling

OrangethorpePlacentia - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

OrangethorpePlacentia

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	6.42	1000sqft	0.15	6,416.00	0
Enclosed Parking with Elevator	151.90	1000sqft	0.51	151,900.00	0
Recreational Swimming Pool	1.22	1000sqft	0.03	1,217.00	0
Apartments Low Rise	260.00	Dwelling Unit	1.18	260,000.00	744
Strip Mall	3.00	1000sqft	0.07	3,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Adjusted based on Sheet G1.1 of site plan
- Construction Phase - Adjusted coating to 20% of building construction
- Trips and VMT - Adjusted building construction based on equipment fleet
- Demolition -
- Grading - Adjusted to lot area
- Vehicle Trips - Adjusted based on TIA
- Woodstoves - Assume no hearths/wood stoves

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Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	40.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	221.00	0.00
tblFireplaces	NumberNoFireplace	26.00	260.00
tblFireplaces	NumberWood	13.00	0.00
tblGrading	AcresOfGrading	4.00	2.72
tblGrading	AcresOfGrading	1.88	2.72
tblGrading	MaterialImported	0.00	3,000.00
tblLandUse	LandUseSquareFeet	6,420.00	6,416.00
tblLandUse	LandUseSquareFeet	1,220.00	1,217.00
tblLandUse	LotAcreage	3.49	0.51
tblLandUse	LotAcreage	16.25	1.18
tblTripsAndVMT	WorkerTripNumber	255.00	18.00
tblTripsAndVMT	WorkerTripNumber	51.00	4.00
tblVehicleTrips	CC_TL	8.40	7.94
tblVehicleTrips	CNW_TL	6.90	7.94
tblVehicleTrips	CW_TL	16.60	7.94
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	HO_TL	8.70	7.94
tblVehicleTrips	HS_TL	5.90	7.94
tblVehicleTrips	HW_TL	14.70	7.94
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00

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tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	8.14	7.32
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	ST_TR	42.04	37.75
tblVehicleTrips	SU_TR	6.28	7.32
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	SU_TR	20.43	37.75
tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	28.82	0.00
tblVehicleTrips	WD_TR	44.32	37.75
tblWoodstoves	NumberCatalytic	13.00	0.00
tblWoodstoves	NumberNoncatalytic	13.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0473	0.4755	0.3359	8.3000e-004	0.0520	0.0209	0.0729	0.0161	0.0198	0.0359	0.0000	75.4004	75.4004	0.0126	4.3900e-003	77.0219
2022	1.0475	1.4198	1.3597	3.2000e-003	0.0500	0.0586	0.1086	0.0140	0.0566	0.0705	0.0000	281.1584	281.1584	0.0363	0.0135	286.0871
Maximum	1.0475	1.4198	1.3597	3.2000e-003	0.0520	0.0586	0.1086	0.0161	0.0566	0.0705	0.0000	281.1584	281.1584	0.0363	0.0135	286.0871

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0473	0.4755	0.3359	8.3000e-004	0.0299	0.0209	0.0509	9.0500e-003	0.0198	0.0288	0.0000	75.4003	75.4003	0.0126	4.3900e-003	77.0218
2022	1.0475	1.4198	1.3597	3.2000e-003	0.0500	0.0586	0.1086	0.0140	0.0566	0.0705	0.0000	281.1582	281.1582	0.0363	0.0135	286.0869
Maximum	1.0475	1.4198	1.3597	3.2000e-003	0.0500	0.0586	0.1086	0.0140	0.0566	0.0705	0.0000	281.1582	281.1582	0.0363	0.0135	286.0869

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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
Percent Reduction	0.00	0.00	0.00	0.00	21.61	0.00	12.14	23.46	0.00	6.64	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-29-2021	1-28-2022	0.6755	0.6755
2	1-29-2022	4-28-2022	0.5408	0.5408
3	4-29-2022	7-28-2022	0.5445	0.5445
4	7-29-2022	9-30-2022	0.4088	0.4088
		Highest	0.6755	0.6755

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1522	0.0309	2.6840	1.4000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	4.3839	4.3839	4.2200e-003	0.0000	4.4894
Energy	0.0178	0.1519	0.0660	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	528.9452	528.9452	0.0332	6.8400e-003	531.8116
Mobile	0.9199	1.0190	9.1587	0.0205	2.1953	0.0143	2.2096	0.5860	0.0133	0.5993	0.0000	1,916.3561	1,916.3561	0.1214	0.0825	1,943.9697
Waste						0.0000	0.0000		0.0000	0.0000	27.5398	0.0000	27.5398	1.6276	0.0000	68.2287
Water						0.0000	0.0000		0.0000	0.0000	5.8297	65.2085	71.0382	0.6043	0.0148	90.5568
Total	2.0898	1.2018	11.9086	0.0216	2.1953	0.0415	2.2368	0.5860	0.0404	0.6264	33.3695	2,514.8936	2,548.2630	2.3906	0.1041	2,639.0562

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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	1.1522	0.0309	2.6840	1.4000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	4.3839	4.3839	4.2200e-003	0.0000	4.4894
Energy	0.0178	0.1519	0.0660	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	528.9452	528.9452	0.0332	6.8400e-003	531.8116
Mobile	0.9199	1.0190	9.1587	0.0205	2.1953	0.0143	2.2096	0.5860	0.0133	0.5993	0.0000	1,916.3561	1,916.3561	0.1214	0.0825	1,943.9697
Waste						0.0000	0.0000		0.0000	0.0000	27.5398	0.0000	27.5398	1.6276	0.0000	68.2287
Water						0.0000	0.0000		0.0000	0.0000	5.8297	65.2085	71.0382	0.6043	0.0148	90.5568
Total	2.0898	1.2018	11.9086	0.0216	2.1953	0.0415	2.2368	0.5860	0.0404	0.6264	33.3695	2,514.8936	2,548.2630	2.3906	0.1041	2,639.0562

	ROG	NOx	CO	SO2	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	10/29/2021	11/25/2021	5	20	
2	Site Preparation	Site Preparation	11/26/2021	11/29/2021	5	2	
3	Grading	Grading	11/30/2021	12/3/2021	5	4	

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4	Building Construction	Building Construction	12/4/2021	9/9/2022	5	200
5	Paving	Paving	9/10/2022	9/23/2022	5	10
6	Architectural Coating	Architectural Coating	9/24/2022	11/18/2022	5	40

Acres of Grading (Site Preparation Phase): 2.72

Acres of Grading (Grading Phase): 2.72

Acres of Paving: 0.51

Residential Indoor: 526,500; Residential Outdoor: 175,500; Non-Residential Indoor: 14,124; Non-Residential Outdoor: 4,708; Striped Parking Area: 9,114 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36

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Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	182.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	375.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	18.00	54.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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3.2 Demolition - 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					
Fugitive Dust					0.0197	0.0000	0.0197	2.9800e-003	0.0000	2.9800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.1970	0.1449	2.4000e-004		0.0104	0.0104		9.7100e-003	9.7100e-003	0.0000	21.0713	21.0713	5.3900e-003	0.0000	21.2060
Total	0.0199	0.1970	0.1449	2.4000e-004	0.0197	0.0104	0.0301	2.9800e-003	9.7100e-003	0.0127	0.0000	21.0713	21.0713	5.3900e-003	0.0000	21.2060

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	5.5000e-004	0.0174	4.4500e-003	6.0000e-005	1.5600e-003	2.0000e-004	1.7700e-003	4.3000e-004	1.9000e-004	6.2000e-004	0.0000	5.7436	5.7436	5.3000e-004	9.2000e-004	6.0308
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	4.2000e-004	3.3000e-004	4.4000e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1586	1.1586	3.0000e-005	3.0000e-005	1.1685
Total	9.7000e-004	0.0178	8.8500e-003	7.0000e-005	2.9900e-003	2.1000e-004	3.2100e-003	8.1000e-004	2.0000e-004	1.0100e-003	0.0000	6.9023	6.9023	5.6000e-004	9.5000e-004	7.1992

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3.2 Demolition - 2021

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					8.8600e-003	0.0000	8.8600e-003	1.3400e-003	0.0000	1.3400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.1970	0.1449	2.4000e-004		0.0104	0.0104		9.7100e-003	9.7100e-003	0.0000	21.0713	21.0713	5.3900e-003	0.0000	21.2060
Total	0.0199	0.1970	0.1449	2.4000e-004	8.8600e-003	0.0104	0.0193	1.3400e-003	9.7100e-003	0.0111	0.0000	21.0713	21.0713	5.3900e-003	0.0000	21.2060

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	5.5000e-004	0.0174	4.4500e-003	6.0000e-005	1.5600e-003	2.0000e-004	1.7700e-003	4.3000e-004	1.9000e-004	6.2000e-004	0.0000	5.7436	5.7436	5.3000e-004	9.2000e-004	6.0308
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	4.2000e-004	3.3000e-004	4.4000e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1586	1.1586	3.0000e-005	3.0000e-005	1.1685
Total	9.7000e-004	0.0178	8.8500e-003	7.0000e-005	2.9900e-003	2.1000e-004	3.2100e-003	8.1000e-004	2.0000e-004	1.0100e-003	0.0000	6.9023	6.9023	5.6000e-004	9.5000e-004	7.1992

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3.3 Site Preparation - 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					
Fugitive Dust					6.7100e-003	0.0000	6.7100e-003	3.0500e-003	0.0000	3.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5600e-003	0.0174	7.5600e-003	2.0000e-005		7.7000e-004	7.7000e-004		7.0000e-004	7.0000e-004	0.0000	1.5118	1.5118	4.9000e-004	0.0000	1.5241
Total	1.5600e-003	0.0174	7.5600e-003	2.0000e-005	6.7100e-003	7.7000e-004	7.4800e-003	3.0500e-003	7.0000e-004	3.7500e-003	0.0000	1.5118	1.5118	4.9000e-004	0.0000	1.5241

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	3.0000e-005	2.0000e-005	2.7000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0713	0.0713	0.0000	0.0000	0.0719
Total	3.0000e-005	2.0000e-005	2.7000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0713	0.0713	0.0000	0.0000	0.0719

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3.3 Site Preparation - 2021

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					3.0200e-003	0.0000	3.0200e-003	1.3700e-003	0.0000	1.3700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5600e-003	0.0174	7.5600e-003	2.0000e-005		7.7000e-004	7.7000e-004		7.0000e-004	7.0000e-004	0.0000	1.5118	1.5118	4.9000e-004	0.0000	1.5241
Total	1.5600e-003	0.0174	7.5600e-003	2.0000e-005	3.0200e-003	7.7000e-004	3.7900e-003	1.3700e-003	7.0000e-004	2.0700e-003	0.0000	1.5118	1.5118	4.9000e-004	0.0000	1.5241

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	3.0000e-005	2.0000e-005	2.7000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0713	0.0713	0.0000	0.0000	0.0719
Total	3.0000e-005	2.0000e-005	2.7000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0713	0.0713	0.0000	0.0000	0.0719

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 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					
Fugitive Dust					0.0137	0.0000	0.0137	6.8000e-003	0.0000	6.8000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6500e-003	0.0404	0.0195	4.0000e-005		1.8300e-003	1.8300e-003		1.6800e-003	1.6800e-003	0.0000	3.6208	3.6208	1.1700e-003	0.0000	3.6501
Total	3.6500e-003	0.0404	0.0195	4.0000e-005	0.0137	1.8300e-003	0.0155	6.8000e-003	1.6800e-003	8.4800e-003	0.0000	3.6208	3.6208	1.1700e-003	0.0000	3.6501

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	1.1400e-003	0.0359	9.1700e-003	1.2000e-004	3.2200e-003	4.2000e-004	3.6400e-003	8.8000e-004	4.0000e-004	1.2800e-003	0.0000	11.8344	11.8344	1.0900e-003	1.8900e-003	12.4260
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	5.0000e-005	6.8000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1783	0.1783	0.0000	0.0000	0.1798
Total	1.2000e-003	0.0359	9.8500e-003	1.2000e-004	3.4400e-003	4.2000e-004	3.8600e-003	9.4000e-004	4.0000e-004	1.3400e-003	0.0000	12.0127	12.0127	1.0900e-003	1.8900e-003	12.6058

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2021

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					6.1500e-003	0.0000	6.1500e-003	3.0600e-003	0.0000	3.0600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6500e-003	0.0404	0.0195	4.0000e-005		1.8300e-003	1.8300e-003		1.6800e-003	1.6800e-003	0.0000	3.6208	3.6208	1.1700e-003	0.0000	3.6501
Total	3.6500e-003	0.0404	0.0195	4.0000e-005	6.1500e-003	1.8300e-003	7.9800e-003	3.0600e-003	1.6800e-003	4.7400e-003	0.0000	3.6208	3.6208	1.1700e-003	0.0000	3.6501

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	1.1400e-003	0.0359	9.1700e-003	1.2000e-004	3.2200e-003	4.2000e-004	3.6400e-003	8.8000e-004	4.0000e-004	1.2800e-003	0.0000	11.8344	11.8344	1.0900e-003	1.8900e-003	12.4260
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	5.0000e-005	6.8000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1783	0.1783	0.0000	0.0000	0.1798
Total	1.2000e-003	0.0359	9.8500e-003	1.2000e-004	3.4400e-003	4.2000e-004	3.8600e-003	9.4000e-004	4.0000e-004	1.3400e-003	0.0000	12.0127	12.0127	1.0900e-003	1.8900e-003	12.6058

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 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	0.0181	0.1364	0.1290	2.2000e-004		6.8400e-003	6.8400e-003		6.6100e-003	6.6100e-003	0.0000	18.1548	18.1548	3.2400e-003	0.0000	18.2358
Total	0.0181	0.1364	0.1290	2.2000e-004		6.8400e-003	6.8400e-003		6.6100e-003	6.6100e-003	0.0000	18.1548	18.1548	3.2400e-003	0.0000	18.2358

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	1.2700e-003	0.0302	9.8200e-003	1.1000e-004	3.4000e-003	4.4000e-004	3.8400e-003	9.8000e-004	4.2000e-004	1.4000e-003	0.0000	10.4512	10.4512	5.9000e-004	1.4900e-003	10.9112
Worker	5.8000e-004	4.6000e-004	6.0900e-003	2.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.6043	1.6043	4.0000e-005	4.0000e-005	1.6179
Total	1.8500e-003	0.0306	0.0159	1.3000e-004	5.3800e-003	4.5000e-004	5.8300e-003	1.5000e-003	4.3000e-004	1.9400e-003	0.0000	12.0554	12.0554	6.3000e-004	1.5300e-003	12.5290

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2021

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	0.0181	0.1364	0.1290	2.2000e-004		6.8400e-003	6.8400e-003		6.6100e-003	6.6100e-003	0.0000	18.1547	18.1547	3.2400e-003	0.0000	18.2358
Total	0.0181	0.1364	0.1290	2.2000e-004		6.8400e-003	6.8400e-003		6.6100e-003	6.6100e-003	0.0000	18.1547	18.1547	3.2400e-003	0.0000	18.2358

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	1.2700e-003	0.0302	9.8200e-003	1.1000e-004	3.4000e-003	4.4000e-004	3.8400e-003	9.8000e-004	4.2000e-004	1.4000e-003	0.0000	10.4512	10.4512	5.9000e-004	1.4900e-003	10.9112
Worker	5.8000e-004	4.6000e-004	6.0900e-003	2.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.6043	1.6043	4.0000e-005	4.0000e-005	1.6179
Total	1.8500e-003	0.0306	0.0159	1.3000e-004	5.3800e-003	4.5000e-004	5.8300e-003	1.5000e-003	4.3000e-004	1.9400e-003	0.0000	12.0554	12.0554	6.3000e-004	1.5300e-003	12.5290

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2022

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	0.1484	1.1253	1.1454	1.9800e-003		0.0530	0.0530		0.0512	0.0512	0.0000	163.4192	163.4192	0.0285	0.0000	164.1308
Total	0.1484	1.1253	1.1454	1.9800e-003		0.0530	0.0530		0.0512	0.0512	0.0000	163.4192	163.4192	0.0285	0.0000	164.1308

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	8.0200e-003	0.2285	0.0787	9.2000e-004	0.0306	2.1200e-003	0.0328	8.8300e-003	2.0300e-003	0.0109	0.0000	91.4345	91.4345	5.2300e-003	0.0131	95.4731
Worker	4.8800e-003	3.6700e-003	0.0508	1.5000e-004	0.0178	1.0000e-004	0.0179	4.7200e-003	9.0000e-005	4.8100e-003	0.0000	14.0554	14.0554	3.5000e-004	3.5000e-004	14.1687
Total	0.0129	0.2321	0.1294	1.0700e-003	0.0484	2.2200e-003	0.0506	0.0136	2.1200e-003	0.0157	0.0000	105.4899	105.4899	5.5800e-003	0.0135	109.6419

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2022

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	0.1484	1.1253	1.1454	1.9800e-003		0.0530	0.0530		0.0512	0.0512	0.0000	163.4190	163.4190	0.0285	0.0000	164.1306
Total	0.1484	1.1253	1.1454	1.9800e-003		0.0530	0.0530		0.0512	0.0512	0.0000	163.4190	163.4190	0.0285	0.0000	164.1306

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	8.0200e-003	0.2285	0.0787	9.2000e-004	0.0306	2.1200e-003	0.0328	8.8300e-003	2.0300e-003	0.0109	0.0000	91.4345	91.4345	5.2300e-003	0.0131	95.4731
Worker	4.8800e-003	3.6700e-003	0.0508	1.5000e-004	0.0178	1.0000e-004	0.0179	4.7200e-003	9.0000e-005	4.8100e-003	0.0000	14.0554	14.0554	3.5000e-004	3.5000e-004	14.1687
Total	0.0129	0.2321	0.1294	1.0700e-003	0.0484	2.2200e-003	0.0506	0.0136	2.1200e-003	0.0157	0.0000	105.4899	105.4899	5.5800e-003	0.0135	109.6419

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2022

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	3.4400e-003	0.0339	0.0440	7.0000e-005		1.7400e-003	1.7400e-003		1.6000e-003	1.6000e-003	0.0000	5.8848	5.8848	1.8700e-003	0.0000	5.9315
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.4400e-003	0.0339	0.0440	7.0000e-005		1.7400e-003	1.7400e-003		1.6000e-003	1.6000e-003	0.0000	5.8848	5.8848	1.8700e-003	0.0000	5.9315

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.5000e-004	2.0400e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5640	0.5640	1.0000e-005	1.0000e-005	0.5685
Total	2.0000e-004	1.5000e-004	2.0400e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5640	0.5640	1.0000e-005	1.0000e-005	0.5685

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3.6 Paving - 2022

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	3.4400e-003	0.0339	0.0440	7.0000e-005		1.7400e-003	1.7400e-003		1.6000e-003	1.6000e-003	0.0000	5.8848	5.8848	1.8700e-003	0.0000	5.9314
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.4400e-003	0.0339	0.0440	7.0000e-005		1.7400e-003	1.7400e-003		1.6000e-003	1.6000e-003	0.0000	5.8848	5.8848	1.8700e-003	0.0000	5.9314

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.5000e-004	2.0400e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5640	0.5640	1.0000e-005	1.0000e-005	0.5685
Total	2.0000e-004	1.5000e-004	2.0400e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5640	0.5640	1.0000e-005	1.0000e-005	0.5685

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3.7 Architectural Coating - 2022

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	0.8782					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0900e-003	0.0282	0.0363	6.0000e-005		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003	0.0000	5.1065	5.1065	3.3000e-004	0.0000	5.1148
Total	0.8823	0.0282	0.0363	6.0000e-005		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003	0.0000	5.1065	5.1065	3.3000e-004	0.0000	5.1148

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.8000e-004	2.5100e-003	1.0000e-005	8.8000e-004	0.0000	8.8000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.6941	0.6941	2.0000e-005	2.0000e-005	0.6997
Total	2.4000e-004	1.8000e-004	2.5100e-003	1.0000e-005	8.8000e-004	0.0000	8.8000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.6941	0.6941	2.0000e-005	2.0000e-005	0.6997

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3.7 Architectural Coating - 2022

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	0.8782					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0900e-003	0.0282	0.0363	6.0000e-005		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003	0.0000	5.1065	5.1065	3.3000e-004	0.0000	5.1148
Total	0.8823	0.0282	0.0363	6.0000e-005		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003	0.0000	5.1065	5.1065	3.3000e-004	0.0000	5.1148

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.8000e-004	2.5100e-003	1.0000e-005	8.8000e-004	0.0000	8.8000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.6941	0.6941	2.0000e-005	2.0000e-005	0.6997
Total	2.4000e-004	1.8000e-004	2.5100e-003	1.0000e-005	8.8000e-004	0.0000	8.8000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.6941	0.6941	2.0000e-005	2.0000e-005	0.6997

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.9199	1.0190	9.1587	0.0205	2.1953	0.0143	2.2096	0.5860	0.0133	0.5993	0.0000	1,916.356 1	1,916.356 1	0.1214	0.0825	1,943.969 7
Unmitigated	0.9199	1.0190	9.1587	0.0205	2.1953	0.0143	2.2096	0.5860	0.0133	0.5993	0.0000	1,916.356 1	1,916.356 1	0.1214	0.0825	1,943.969 7

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,903.20	1,903.20	1903.20	5,500,553	5,500,553
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Strip Mall	113.25	113.25	113.25	327,311	327,311
Total	2,016.45	2,016.45	2,016.45	5,827,863	5,827,863

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
Apartments Low Rise	7.94	7.94	7.94	40.20	19.20	40.60	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Strip Mall	7.94	7.94	7.94	16.60	64.40	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.544795	0.058861	0.186903	0.129401	0.024381	0.006522	0.014242	0.004855	0.000656	0.000385	0.024332	0.000723	0.003942
Enclosed Parking with Elevator	0.544795	0.058861	0.186903	0.129401	0.024381	0.006522	0.014242	0.004855	0.000656	0.000385	0.024332	0.000723	0.003942
General Office Building	0.544795	0.058861	0.186903	0.129401	0.024381	0.006522	0.014242	0.004855	0.000656	0.000385	0.024332	0.000723	0.003942
Recreational Swimming Pool	0.544795	0.058861	0.186903	0.129401	0.024381	0.006522	0.014242	0.004855	0.000656	0.000385	0.024332	0.000723	0.003942
Strip Mall	0.544795	0.058861	0.186903	0.129401	0.024381	0.006522	0.014242	0.004855	0.000656	0.000385	0.024332	0.000723	0.003942

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	353.2175	353.2175	0.0298	3.6100e-003	355.0397
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	353.2175	353.2175	0.0298	3.6100e-003	355.0397
NaturalGas Mitigated	0.0178	0.1519	0.0660	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.7276	175.7276	3.3700e-003	3.2200e-003	176.7719
NaturalGas Unmitigated	0.0178	0.1519	0.0660	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.7276	175.7276	3.3700e-003	3.2200e-003	176.7719

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
Apartments Low Rise	3.22898e+006	0.0174	0.1488	0.0633	9.5000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	172.3105	172.3105	3.3000e-003	3.1600e-003	173.3344
Enclosed Parking with Elevator	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
General Office Building	58064.8	3.1000e-004	2.8500e-003	2.3900e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.0986	3.0986	6.0000e-005	6.0000e-005	3.1170
Recreational Swimming Pool	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
Strip Mall	5970	3.0000e-005	2.9000e-004	2.5000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3186	0.3186	1.0000e-005	1.0000e-005	0.3205
Total		0.0178	0.1519	0.0660	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.7276	175.7276	3.3700e-003	3.2300e-003	176.7719

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	3.22898e+006	0.0174	0.1488	0.0633	9.5000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	172.3105	172.3105	3.3000e-003	3.1600e-003	173.3344
Enclosed Parking with Elevator	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
General Office Building	58064.8	3.1000e-004	2.8500e-003	2.3900e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.0986	3.0986	6.0000e-005	6.0000e-005	3.1170
Recreational Swimming Pool	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
Strip Mall	5970	3.0000e-005	2.9000e-004	2.5000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3186	0.3186	1.0000e-005	1.0000e-005	0.3205
Total		0.0178	0.1519	0.0660	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.7276	175.7276	3.3700e-003	3.2300e-003	176.7719

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.04541e+006	185.3994	0.0157	1.9000e-003	186.3558
Enclosed Parking with Elevator	826336	146.5470	0.0124	1.5000e-003	147.3030
General Office Building	86551.8	15.3496	1.3000e-003	1.6000e-004	15.4288
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	33390	5.9216	5.0000e-004	6.0000e-005	5.9521
Total		353.2175	0.0298	3.6200e-003	355.0397

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.04541e+006	185.3994	0.0157	1.9000e-003	186.3558
Enclosed Parking with Elevator	826336	146.5470	0.0124	1.5000e-003	147.3030
General Office Building	86551.8	15.3496	1.3000e-003	1.6000e-004	15.4288
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	33390	5.9216	5.0000e-004	6.0000e-005	5.9521
Total		353.2175	0.0298	3.6200e-003	355.0397

6.0 Area Detail

6.1 Mitigation Measures Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.1522	0.0309	2.6840	1.4000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	4.3839	4.3839	4.2200e-003	0.0000	4.4894
Unmitigated	1.1522	0.0309	2.6840	1.4000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	4.3839	4.3839	4.2200e-003	0.0000	4.4894

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	0.0878					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9834					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0810	0.0309	2.6840	1.4000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	4.3839	4.3839	4.2200e-003	0.0000	4.4894
Total	1.1522	0.0309	2.6840	1.4000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	4.3839	4.3839	4.2200e-003	0.0000	4.4894

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0878					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9834					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0810	0.0309	2.6840	1.4000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	4.3839	4.3839	4.2200e-003	0.0000	4.4894
Total	1.1522	0.0309	2.6840	1.4000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	4.3839	4.3839	4.2200e-003	0.0000	4.4894

7.0 Water Detail

7.1 Mitigation Measures Water

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	71.0382	0.6043	0.0148	90.5568
Unmitigated	71.0382	0.6043	0.0148	90.5568

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	16.94 / 10.6796	65.5346	0.5571	0.0137	83.5288
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.14105 / 0.699354	4.3749	0.0375	9.2000e-004	5.5867
Recreational Swimming Pool	0.0721546 / 0.0442238	0.2767	2.3700e-003	6.0000e-005	0.3533
Strip Mall	0.222218 / 0.136198	0.8520	7.3100e-003	1.8000e-004	1.0880
Total		71.0382	0.6043	0.0148	90.5569

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	16.94 / 10.6796	65.5346	0.5571	0.0137	83.5288
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.14105 / 0.699354	4.3749	0.0375	9.2000e-004	5.5867
Recreational Swimming Pool	0.0721546 / 0.0442238	0.2767	2.3700e-003	6.0000e-005	0.3533
Strip Mall	0.222218 / 0.136198	0.8520	7.3100e-003	1.8000e-004	1.0880
Total		71.0382	0.6043	0.0148	90.5569

8.0 Waste Detail

8.1 Mitigation Measures Waste

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	27.5398	1.6276	0.0000	68.2287
Unmitigated	27.5398	1.6276	0.0000	68.2287

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	119.6	24.2777	1.4348	0.0000	60.1470
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	5.97	1.2119	0.0716	0.0000	3.0023
Recreational Swimming Pool	6.95	1.4108	0.0834	0.0000	3.4952
Strip Mall	3.15	0.6394	0.0378	0.0000	1.5841
Total		27.5398	1.6276	0.0000	68.2287

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	119.6	24.2777	1.4348	0.0000	60.1470
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	5.97	1.2119	0.0716	0.0000	3.0023
Recreational Swimming Pool	6.95	1.4108	0.0834	0.0000	3.4952
Strip Mall	3.15	0.6394	0.0378	0.0000	1.5841
Total		27.5398	1.6276	0.0000	68.2287

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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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

OrangethorpePlacentia

Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	6.42	1000sqft	0.15	6,416.00	0
Enclosed Parking with Elevator	151.90	1000sqft	0.51	151,900.00	0
Recreational Swimming Pool	1.22	1000sqft	0.03	1,217.00	0
Apartments Low Rise	260.00	Dwelling Unit	1.18	260,000.00	744
Strip Mall	3.00	1000sqft	0.07	3,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Adjusted based on Sheet G1.1 of site plan
- Construction Phase - Adjusted coating to 20% of building construction
- Trips and VMT - Adjusted building construction based on equipment fleet
- Demolition -
- Grading - Adjusted to lot area
- Vehicle Trips - Adjusted based on TIA
- Woodstoves - Assume no hearths/wood stoves

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	40.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	221.00	0.00
tblFireplaces	NumberNoFireplace	26.00	260.00
tblFireplaces	NumberWood	13.00	0.00
tblGrading	AcresOfGrading	4.00	2.72
tblGrading	AcresOfGrading	1.88	2.72
tblGrading	MaterialImported	0.00	3,000.00
tblLandUse	LandUseSquareFeet	6,420.00	6,416.00
tblLandUse	LandUseSquareFeet	1,220.00	1,217.00
tblLandUse	LotAcreage	3.49	0.51
tblLandUse	LotAcreage	16.25	1.18
tblTripsAndVMT	WorkerTripNumber	255.00	18.00
tblTripsAndVMT	WorkerTripNumber	51.00	4.00
tblVehicleTrips	CC_TL	8.40	7.94
tblVehicleTrips	CNW_TL	6.90	7.94
tblVehicleTrips	CW_TL	16.60	7.94
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	HO_TL	8.70	7.94
tblVehicleTrips	HS_TL	5.90	7.94
tblVehicleTrips	HW_TL	14.70	7.94
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	8.14	7.32
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	ST_TR	42.04	37.75
tblVehicleTrips	SU_TR	6.28	7.32
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	SU_TR	20.43	37.75
tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	28.82	0.00
tblVehicleTrips	WD_TR	44.32	37.75
tblWoodstoves	NumberCatalytic	13.00	0.00
tblWoodstoves	NumberNoncatalytic	13.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.4305	37.2926	15.3979	0.0794	8.5750	1.1261	9.7011	3.8784	1.0438	4.9221	0.0000	8,619.863 2	8,619.863 2	1.2503	1.0460	8,962.816 1
2022	44.1270	14.9624	14.1791	0.0340	0.5465	0.6135	1.1600	0.1527	0.5924	0.7451	0.0000	3,299.668 1	3,299.668 1	0.4169	0.1645	3,359.097 8
Maximum	44.1270	37.2926	15.3979	0.0794	8.5750	1.1261	9.7011	3.8784	1.0438	4.9221	0.0000	8,619.863 2	8,619.863 2	1.2503	1.0460	8,962.816 1

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.4305	37.2926	15.3979	0.0794	4.8195	1.1261	5.9457	2.0079	1.0438	3.0516	0.0000	8,619.863 2	8,619.863 2	1.2503	1.0460	8,962.816 1
2022	44.1270	14.9624	14.1791	0.0340	0.5465	0.6135	1.1600	0.1527	0.5924	0.7451	0.0000	3,299.668 1	3,299.668 1	0.4169	0.1645	3,359.097 8
Maximum	44.1270	37.2926	15.3979	0.0794	4.8195	1.1261	5.9457	2.0079	1.0438	3.0516	0.0000	8,619.863 2	8,619.863 2	1.2503	1.0460	8,962.816 1

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	41.17	0.00	34.58	46.40	0.00	33.01	0.00	0.00	0.00	0.00	0.00	0.00

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	6.5174	0.2475	21.4717	1.1300e-003		0.1188	0.1188		0.1188	0.1188	0.0000	38.6592	38.6592	0.0372	0.0000	39.5900
Energy	0.0973	0.8325	0.3614	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.4057	1,061.4057	0.0203	0.0195	1,067.7131
Mobile	5.2129	5.1405	50.4581	0.1162	12.2796	0.0788	12.3584	3.2730	0.0733	3.3463		11,953.6344	11,953.6344	0.7144	0.4766	12,113.5103
Total	11.8275	6.2204	72.2912	0.1227	12.2796	0.2649	12.5445	3.2730	0.2593	3.5323	0.0000	13,053.6992	13,053.6992	0.7720	0.4960	13,220.8134

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	6.5174	0.2475	21.4717	1.1300e-003		0.1188	0.1188		0.1188	0.1188	0.0000	38.6592	38.6592	0.0372	0.0000	39.5900
Energy	0.0973	0.8325	0.3614	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.4057	1,061.4057	0.0203	0.0195	1,067.7131
Mobile	5.2129	5.1405	50.4581	0.1162	12.2796	0.0788	12.3584	3.2730	0.0733	3.3463		11,953.6344	11,953.6344	0.7144	0.4766	12,113.5103
Total	11.8275	6.2204	72.2912	0.1227	12.2796	0.2649	12.5445	3.2730	0.2593	3.5323	0.0000	13,053.6992	13,053.6992	0.7720	0.4960	13,220.8134

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	10/29/2021	11/25/2021	5	20	
2	Site Preparation	Site Preparation	11/26/2021	11/29/2021	5	2	
3	Grading	Grading	11/30/2021	12/3/2021	5	4	
4	Building Construction	Building Construction	12/4/2021	9/9/2022	5	200	
5	Paving	Paving	9/10/2022	9/23/2022	5	10	
6	Architectural Coating	Architectural Coating	9/24/2022	11/18/2022	5	40	

Acres of Grading (Site Preparation Phase): 2.72

Acres of Grading (Grading Phase): 2.72

Acres of Paving: 0.51

Residential Indoor: 526,500; Residential Outdoor: 175,500; Non-Residential Indoor: 14,124; Non-Residential Outdoor: 4,708; Striped Parking Area: 9,114 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	182.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	375.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	18.00	54.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 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	lb/day										lb/day					
Fugitive Dust					1.9687	0.0000	1.9687	0.2981	0.0000	0.2981			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.717 1	2,322.717 1	0.5940		2,337.565 8
Total	1.9930	19.6966	14.4925	0.0241	1.9687	1.0409	3.0096	0.2981	0.9715	1.2696		2,322.717 1	2,322.717 1	0.5940		2,337.565 8

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	0.0555	1.6556	0.4425	5.6100e-003	0.1587	0.0204	0.1791	0.0435	0.0195	0.0629		633.1108	633.1108	0.0585	0.1013	664.7586
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
Worker	0.0419	0.0297	0.4628	1.3100e-003	0.1453	8.3000e-004	0.1461	0.0385	7.7000e-004	0.0393		132.3643	132.3643	3.3400e-003	3.1100e-003	133.3732
Total	0.0974	1.6853	0.9053	6.9200e-003	0.3040	0.0212	0.3252	0.0820	0.0203	0.1022		765.4751	765.4751	0.0618	0.1044	798.1318

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2021

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					0.8859	0.0000	0.8859	0.1341	0.0000	0.1341			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715	0.0000	2,322.717 1	2,322.717 1	0.5940		2,337.565 8
Total	1.9930	19.6966	14.4925	0.0241	0.8859	1.0409	1.9268	0.1341	0.9715	1.1056	0.0000	2,322.717 1	2,322.717 1	0.5940		2,337.565 8

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	0.0555	1.6556	0.4425	5.6100e-003	0.1587	0.0204	0.1791	0.0435	0.0195	0.0629		633.1108	633.1108	0.0585	0.1013	664.7586
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
Worker	0.0419	0.0297	0.4628	1.3100e-003	0.1453	8.3000e-004	0.1461	0.0385	7.7000e-004	0.0393		132.3643	132.3643	3.3400e-003	3.1100e-003	133.3732
Total	0.0974	1.6853	0.9053	6.9200e-003	0.3040	0.0212	0.3252	0.0820	0.0203	0.1022		765.4751	765.4751	0.0618	0.1044	798.1318

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					6.7116	0.0000	6.7116	3.0522	0.0000	3.0522			0.0000			0.0000
Off-Road	1.5558	17.4203	7.5605	0.0172		0.7654	0.7654		0.7041	0.7041		1,666.5174	1,666.5174	0.5390		1,679.9920
Total	1.5558	17.4203	7.5605	0.0172	6.7116	0.7654	7.4770	3.0522	0.7041	3.7563		1,666.5174	1,666.5174	0.5390		1,679.9920

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	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
Worker	0.0258	0.0182	0.2848	8.0000e-004	0.0894	5.1000e-004	0.0899	0.0237	4.7000e-004	0.0242		81.4549	81.4549	2.0500e-003	1.9100e-003	82.0758
Total	0.0258	0.0182	0.2848	8.0000e-004	0.0894	5.1000e-004	0.0899	0.0237	4.7000e-004	0.0242		81.4549	81.4549	2.0500e-003	1.9100e-003	82.0758

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2021

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					3.0202	0.0000	3.0202	1.3735	0.0000	1.3735			0.0000			0.0000
Off-Road	1.5558	17.4203	7.5605	0.0172		0.7654	0.7654		0.7041	0.7041	0.0000	1,666.5174	1,666.5174	0.5390		1,679.9920
Total	1.5558	17.4203	7.5605	0.0172	3.0202	0.7654	3.7856	1.3735	0.7041	2.0776	0.0000	1,666.5174	1,666.5174	0.5390		1,679.9920

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	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
Worker	0.0258	0.0182	0.2848	8.0000e-004	0.0894	5.1000e-004	0.0899	0.0237	4.7000e-004	0.0242		81.4549	81.4549	2.0500e-003	1.9100e-003	82.0758
Total	0.0258	0.0182	0.2848	8.0000e-004	0.0894	5.1000e-004	0.0899	0.0237	4.7000e-004	0.0242		81.4549	81.4549	2.0500e-003	1.9100e-003	82.0758

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					6.8280	0.0000	6.8280	3.4009	0.0000	3.4009			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425		1,995.6114	1,995.6114	0.6454		2,011.7470
Total	1.8271	20.2135	9.7604	0.0206	6.8280	0.9158	7.7438	3.4009	0.8425	4.2434		1,995.6114	1,995.6114	0.6454		2,011.7470

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	0.5712	17.0563	4.5590	0.0578	1.6351	0.2097	1.8449	0.4478	0.2007	0.6485		6,522.4330	6,522.4330	0.6024	1.0436	6,848.4743
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
Worker	0.0322	0.0228	0.3560	1.0100e-003	0.1118	6.4000e-004	0.1124	0.0296	5.9000e-004	0.0302		101.8187	101.8187	2.5700e-003	2.3900e-003	102.5948
Total	0.6035	17.0791	4.9150	0.0588	1.7469	0.2104	1.9573	0.4774	0.2013	0.6787		6,624.2517	6,624.2517	0.6049	1.0460	6,951.0691

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2021

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					3.0726	0.0000	3.0726	1.5304	0.0000	1.5304			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425	0.0000	1,995.611 4	1,995.611 4	0.6454		2,011.747 0
Total	1.8271	20.2135	9.7604	0.0206	3.0726	0.9158	3.9884	1.5304	0.8425	2.3729	0.0000	1,995.611 4	1,995.611 4	0.6454		2,011.747 0

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	0.5712	17.0563	4.5590	0.0578	1.6351	0.2097	1.8449	0.4478	0.2007	0.6485		6,522.433 0	6,522.433 0	0.6024	1.0436	6,848.474 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	0.0000
Worker	0.0322	0.0228	0.3560	1.0100e-003	0.1118	6.4000e-004	0.1124	0.0296	5.9000e-004	0.0302		101.8187	101.8187	2.5700e-003	2.3900e-003	102.5948
Total	0.6035	17.0791	4.9150	0.0588	1.7469	0.2104	1.9573	0.4774	0.2013	0.6787		6,624.251 7	6,624.251 7	0.6049	1.0460	6,951.069 1

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 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	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517

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	0.0000
Vendor	0.1273	2.8753	0.9674	0.0106	0.3453	0.0435	0.3888	0.0994	0.0416	0.1410		1,152.0489	1,152.0489	0.0649	0.1646	1,202.7143
Worker	0.0580	0.0411	0.6408	1.8100e-003	0.2012	1.1500e-003	0.2024	0.0534	1.0600e-003	0.0544		183.2736	183.2736	4.6200e-003	4.3000e-003	184.6706
Total	0.1853	2.9164	1.6082	0.0124	0.5465	0.0447	0.5912	0.1527	0.0427	0.1954		1,335.3225	1,335.3225	0.0695	0.1689	1,387.3849

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517

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	0.0000
Vendor	0.1273	2.8753	0.9674	0.0106	0.3453	0.0435	0.3888	0.0994	0.0416	0.1410		1,152.0489	1,152.0489	0.0649	0.1646	1,202.7143
Worker	0.0580	0.0411	0.6408	1.8100e-003	0.2012	1.1500e-003	0.2024	0.0534	1.0600e-003	0.0544		183.2736	183.2736	4.6200e-003	4.3000e-003	184.6706
Total	0.1853	2.9164	1.6082	0.0124	0.5465	0.0447	0.5912	0.1527	0.0427	0.1954		1,335.3225	1,335.3225	0.0695	0.1689	1,387.3849

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2022

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	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581

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	0.0000
Vendor	0.0898	2.4230	0.8603	0.0102	0.3453	0.0236	0.3689	0.0994	0.0226	0.1219		1,119.7309	1,119.7309	0.0642	0.1605	1,169.1542
Worker	0.0542	0.0364	0.5924	1.7500e-003	0.2012	1.0900e-003	0.2023	0.0534	1.0000e-003	0.0544		178.3944	178.3944	4.1700e-003	3.9800e-003	179.6856
Total	0.1439	2.4594	1.4527	0.0120	0.5465	0.0247	0.5711	0.1527	0.0236	0.1763		1,298.1253	1,298.1253	0.0683	0.1645	1,348.8398

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581

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	0.0000
Vendor	0.0898	2.4230	0.8603	0.0102	0.3453	0.0236	0.3689	0.0994	0.0226	0.1219		1,119.7309	1,119.7309	0.0642	0.1605	1,169.1542
Worker	0.0542	0.0364	0.5924	1.7500e-003	0.2012	1.0900e-003	0.2023	0.0534	1.0000e-003	0.0544		178.3944	178.3944	4.1700e-003	3.9800e-003	179.6856
Total	0.1439	2.4594	1.4527	0.0120	0.5465	0.0247	0.5711	0.1527	0.0236	0.1763		1,298.1253	1,298.1253	0.0683	0.1645	1,348.8398

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2022

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	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.378 ₉	1,297.378 ₉	0.4113		1,307.660 ₈
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.378₉	1,297.378₉	0.4113		1,307.660₈

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	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
Worker	0.0391	0.0263	0.4278	1.2700e-003	0.1453	7.8000e-004	0.1461	0.0385	7.2000e-004	0.0393		128.8404	128.8404	3.0100e-003	2.8800e-003	129.7729
Total	0.0391	0.0263	0.4278	1.2700e-003	0.1453	7.8000e-004	0.1461	0.0385	7.2000e-004	0.0393		128.8404	128.8404	3.0100e-003	2.8800e-003	129.7729

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2022

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	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205	0.0000	1,297.378 ₉	1,297.378 ₉	0.4113		1,307.660 ₈
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205	0.0000	1,297.378₉	1,297.378₉	0.4113		1,307.660₈

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	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
Worker	0.0391	0.0263	0.4278	1.2700e-003	0.1453	7.8000e-004	0.1461	0.0385	7.2000e-004	0.0393		128.8404	128.8404	3.0100e-003	2.8800e-003	129.7729
Total	0.0391	0.0263	0.4278	1.2700e-003	0.1453	7.8000e-004	0.1461	0.0385	7.2000e-004	0.0393		128.8404	128.8404	3.0100e-003	2.8800e-003	129.7729

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2022

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	43.9104					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	44.1149	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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	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
Worker	0.0120	8.0900e-003	0.1316	3.9000e-004	0.0447	2.4000e-004	0.0450	0.0119	2.2000e-004	0.0121		39.6432	39.6432	9.3000e-004	8.9000e-004	39.9301
Total	0.0120	8.0900e-003	0.1316	3.9000e-004	0.0447	2.4000e-004	0.0450	0.0119	2.2000e-004	0.0121		39.6432	39.6432	9.3000e-004	8.9000e-004	39.9301

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2022

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	43.9104					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	44.1149	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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	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
Worker	0.0120	8.0900e-003	0.1316	3.9000e-004	0.0447	2.4000e-004	0.0450	0.0119	2.2000e-004	0.0121		39.6432	39.6432	9.3000e-004	8.9000e-004	39.9301
Total	0.0120	8.0900e-003	0.1316	3.9000e-004	0.0447	2.4000e-004	0.0450	0.0119	2.2000e-004	0.0121		39.6432	39.6432	9.3000e-004	8.9000e-004	39.9301

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.2129	5.1405	50.4581	0.1162	12.2796	0.0788	12.3584	3.2730	0.0733	3.3463		11,953.6344	11,953.6344	0.7144	0.4766	12,113.5103
Unmitigated	5.2129	5.1405	50.4581	0.1162	12.2796	0.0788	12.3584	3.2730	0.0733	3.3463		11,953.6344	11,953.6344	0.7144	0.4766	12,113.5103

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,903.20	1,903.20	1903.20	5,500,553	5,500,553
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Strip Mall	113.25	113.25	113.25	327,311	327,311
Total	2,016.45	2,016.45	2,016.45	5,827,863	5,827,863

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
Apartments Low Rise	7.94	7.94	7.94	40.20	19.20	40.60	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Strip Mall	7.94	7.94	7.94	16.60	64.40	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.544795	0.058861	0.186903	0.129401	0.024381	0.006522	0.014242	0.004855	0.000656	0.000385	0.024332	0.000723	0.003942
Enclosed Parking with Elevator	0.544795	0.058861	0.186903	0.129401	0.024381	0.006522	0.014242	0.004855	0.000656	0.000385	0.024332	0.000723	0.003942
General Office Building	0.544795	0.058861	0.186903	0.129401	0.024381	0.006522	0.014242	0.004855	0.000656	0.000385	0.024332	0.000723	0.003942
Recreational Swimming Pool	0.544795	0.058861	0.186903	0.129401	0.024381	0.006522	0.014242	0.004855	0.000656	0.000385	0.024332	0.000723	0.003942
Strip Mall	0.544795	0.058861	0.186903	0.129401	0.024381	0.006522	0.014242	0.004855	0.000656	0.000385	0.024332	0.000723	0.003942

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	0.0973	0.8325	0.3614	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.4057	1,061.4057	0.0203	0.0195	1,067.7131
NaturalGas Unmitigated	0.0973	0.8325	0.3614	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.4057	1,061.4057	0.0203	0.0195	1,067.7131

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					
Apartments Low Rise	8846.51	0.0954	0.8153	0.3469	5.2000e-003		0.0659	0.0659		0.0659	0.0659		1,040.7660	1,040.7660	0.0200	0.0191	1,046.9507
Enclosed Parking with Elevator	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
General Office Building	159.082	1.7200e-003	0.0156	0.0131	9.0000e-005		1.1900e-003	1.1900e-003		1.1900e-003	1.1900e-003		18.7155	18.7155	3.6000e-004	3.4000e-004	18.8267
Recreational Swimming Pool	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
Strip Mall	16.3562	1.8000e-004	1.6000e-003	1.3500e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		1.9243	1.9243	4.0000e-005	4.0000e-005	1.9357
Total		0.0973	0.8325	0.3614	5.3000e-003		0.0672	0.0672		0.0672	0.0672		1,061.4057	1,061.4057	0.0204	0.0195	1,067.7131

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	8.84651	0.0954	0.8153	0.3469	5.2000e-003		0.0659	0.0659		0.0659	0.0659		1,040.7660	1,040.7660	0.0200	0.0191	1,046.9507
Enclosed Parking with Elevator	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
General Office Building	0.159082	1.7200e-003	0.0156	0.0131	9.0000e-005		1.1900e-003	1.1900e-003		1.1900e-003	1.1900e-003		18.7155	18.7155	3.6000e-004	3.4000e-004	18.8267
Recreational Swimming Pool	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
Strip Mall	0.0163562	1.8000e-004	1.6000e-003	1.3500e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		1.9243	1.9243	4.0000e-005	4.0000e-005	1.9357
Total		0.0973	0.8325	0.3614	5.3000e-003		0.0672	0.0672		0.0672	0.0672		1,061.4057	1,061.4057	0.0204	0.0195	1,067.7131

6.0 Area Detail

6.1 Mitigation Measures Area

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	6.5174	0.2475	21.4717	1.1300e-003		0.1188	0.1188		0.1188	0.1188	0.0000	38.6592	38.6592	0.0372	0.0000	39.5900
Unmitigated	6.5174	0.2475	21.4717	1.1300e-003		0.1188	0.1188		0.1188	0.1188	0.0000	38.6592	38.6592	0.0372	0.0000	39.5900

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	0.4812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.3882					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6479	0.2475	21.4717	1.1300e-003		0.1188	0.1188		0.1188	0.1188		38.6592	38.6592	0.0372		39.5900
Total	6.5174	0.2475	21.4717	1.1300e-003		0.1188	0.1188		0.1188	0.1188	0.0000	38.6592	38.6592	0.0372	0.0000	39.5900

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.4812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.3882					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6479	0.2475	21.4717	1.1300e-003		0.1188	0.1188		0.1188	0.1188		38.6592	38.6592	0.0372		39.5900
Total	6.5174	0.2475	21.4717	1.1300e-003		0.1188	0.1188		0.1188	0.1188	0.0000	38.6592	38.6592	0.0372	0.0000	39.5900

7.0 Water Detail

7.1 Mitigation Measures Water

OrangethorpePlacentia - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

OrangethorpePlacentia

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	6.42	1000sqft	0.15	6,416.00	0
Enclosed Parking with Elevator	151.90	1000sqft	0.51	151,900.00	0
Recreational Swimming Pool	1.22	1000sqft	0.03	1,217.00	0
Apartments Low Rise	260.00	Dwelling Unit	1.18	260,000.00	744
Strip Mall	3.00	1000sqft	0.07	3,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Adjusted based on Sheet G1.1 of site plan
- Construction Phase - Adjusted coating to 20% of building construction
- Trips and VMT - Adjusted building construction based on equipment fleet
- Demolition -
- Grading - Adjusted to lot area
- Vehicle Trips - Adjusted based on TIA
- Woodstoves - Assume no hearths/wood stoves

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	40.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	221.00	0.00
tblFireplaces	NumberNoFireplace	26.00	260.00
tblFireplaces	NumberWood	13.00	0.00
tblGrading	AcresOfGrading	4.00	2.72
tblGrading	AcresOfGrading	1.88	2.72
tblGrading	MaterialImported	0.00	3,000.00
tblLandUse	LandUseSquareFeet	6,420.00	6,416.00
tblLandUse	LandUseSquareFeet	1,220.00	1,217.00
tblLandUse	LotAcreage	3.49	0.51
tblLandUse	LotAcreage	16.25	1.18
tblTripsAndVMT	WorkerTripNumber	255.00	18.00
tblTripsAndVMT	WorkerTripNumber	51.00	4.00
tblVehicleTrips	CC_TL	8.40	7.94
tblVehicleTrips	CNW_TL	6.90	7.94
tblVehicleTrips	CW_TL	16.60	7.94
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	HO_TL	8.70	7.94
tblVehicleTrips	HS_TL	5.90	7.94
tblVehicleTrips	HW_TL	14.70	7.94
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	8.14	7.32
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	ST_TR	42.04	37.75
tblVehicleTrips	SU_TR	6.28	7.32
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	SU_TR	20.43	37.75
tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	28.82	0.00
tblVehicleTrips	WD_TR	44.32	37.75
tblWoodstoves	NumberCatalytic	13.00	0.00
tblWoodstoves	NumberNoncatalytic	13.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.4252	37.9486	15.3716	0.0794	8.5750	1.1265	9.7014	3.8784	1.0441	4.9224	0.0000	8,615.3818	8,615.3818	1.2499	1.0462	8,958.3989
2022	44.1280	15.0609	14.1688	0.0340	0.5465	0.6136	1.1601	0.1527	0.5925	0.7452	0.0000	3,291.4663	3,291.4663	0.4169	0.1649	3,351.0205
Maximum	44.1280	37.9486	15.3716	0.0794	8.5750	1.1265	9.7014	3.8784	1.0441	4.9224	0.0000	8,615.3818	8,615.3818	1.2499	1.0462	8,958.3989

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.4252	37.9486	15.3716	0.0794	4.8195	1.1265	5.9460	2.0079	1.0441	3.0519	0.0000	8,615.3818	8,615.3818	1.2499	1.0462	8,958.3989
2022	44.1280	15.0609	14.1688	0.0340	0.5465	0.6136	1.1601	0.1527	0.5925	0.7452	0.0000	3,291.4663	3,291.4663	0.4169	0.1649	3,351.0205
Maximum	44.1280	37.9486	15.3716	0.0794	4.8195	1.1265	5.9460	2.0079	1.0441	3.0519	0.0000	8,615.3818	8,615.3818	1.2499	1.0462	8,958.3989

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	41.17	0.00	34.58	46.40	0.00	33.00	0.00	0.00	0.00	0.00	0.00	0.00

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	6.5174	0.2475	21.4717	1.1300e-003		0.1188	0.1188		0.1188	0.1188	0.0000	38.6592	38.6592	0.0372	0.0000	39.5900
Energy	0.0973	0.8325	0.3614	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.4057	1,061.4057	0.0203	0.0195	1,067.7131
Mobile	5.1759	5.5239	50.0162	0.1118	12.2796	0.0789	12.3585	3.2730	0.0733	3.3463		11,497.2146	11,497.2146	0.7402	0.4971	11,663.8423
Total	11.7905	6.6038	71.8493	0.1182	12.2796	0.2649	12.5445	3.2730	0.2593	3.5323	0.0000	12,597.2795	12,597.2795	0.7978	0.5165	12,771.1454

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	6.5174	0.2475	21.4717	1.1300e-003		0.1188	0.1188		0.1188	0.1188	0.0000	38.6592	38.6592	0.0372	0.0000	39.5900
Energy	0.0973	0.8325	0.3614	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.4057	1,061.4057	0.0203	0.0195	1,067.7131
Mobile	5.1759	5.5239	50.0162	0.1118	12.2796	0.0789	12.3585	3.2730	0.0733	3.3463		11,497.2146	11,497.2146	0.7402	0.4971	11,663.8423
Total	11.7905	6.6038	71.8493	0.1182	12.2796	0.2649	12.5445	3.2730	0.2593	3.5323	0.0000	12,597.2795	12,597.2795	0.7978	0.5165	12,771.1454

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	10/29/2021	11/25/2021	5	20	
2	Site Preparation	Site Preparation	11/26/2021	11/29/2021	5	2	
3	Grading	Grading	11/30/2021	12/3/2021	5	4	
4	Building Construction	Building Construction	12/4/2021	9/9/2022	5	200	
5	Paving	Paving	9/10/2022	9/23/2022	5	10	
6	Architectural Coating	Architectural Coating	9/24/2022	11/18/2022	5	40	

Acres of Grading (Site Preparation Phase): 2.72

Acres of Grading (Grading Phase): 2.72

Acres of Paving: 0.51

Residential Indoor: 526,500; Residential Outdoor: 175,500; Non-Residential Indoor: 14,124; Non-Residential Outdoor: 4,708; Striped Parking Area: 9,114 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	182.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	375.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	18.00	54.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 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	lb/day										lb/day					
Fugitive Dust					1.9687	0.0000	1.9687	0.2981	0.0000	0.2981			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.717 1	2,322.717 1	0.5940		2,337.565 8
Total	1.9930	19.6966	14.4925	0.0241	1.9687	1.0409	3.0096	0.2981	0.9715	1.2696		2,322.717 1	2,322.717 1	0.5940		2,337.565 8

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	0.0547	1.7191	0.4490	5.6100e-003	0.1587	0.0204	0.1791	0.0435	0.0195	0.0630		633.1511	633.1511	0.0584	0.1013	664.8005
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
Worker	0.0455	0.0326	0.4301	1.2400e-003	0.1453	8.3000e-004	0.1461	0.0385	7.7000e-004	0.0393		125.9987	125.9987	3.4100e-003	3.3100e-003	127.0692
Total	0.1002	1.7516	0.8791	6.8500e-003	0.3040	0.0212	0.3253	0.0820	0.0203	0.1023		759.1499	759.1499	0.0618	0.1046	791.8697

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2021

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					0.8859	0.0000	0.8859	0.1341	0.0000	0.1341			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715	0.0000	2,322.717 1	2,322.717 1	0.5940		2,337.565 8
Total	1.9930	19.6966	14.4925	0.0241	0.8859	1.0409	1.9268	0.1341	0.9715	1.1056	0.0000	2,322.717 1	2,322.717 1	0.5940		2,337.565 8

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	0.0547	1.7191	0.4490	5.6100e-003	0.1587	0.0204	0.1791	0.0435	0.0195	0.0630		633.1511	633.1511	0.0584	0.1013	664.8005
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
Worker	0.0455	0.0326	0.4301	1.2400e-003	0.1453	8.3000e-004	0.1461	0.0385	7.7000e-004	0.0393		125.9987	125.9987	3.4100e-003	3.3100e-003	127.0692
Total	0.1002	1.7516	0.8791	6.8500e-003	0.3040	0.0212	0.3253	0.0820	0.0203	0.1023		759.1499	759.1499	0.0618	0.1046	791.8697

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					6.7116	0.0000	6.7116	3.0522	0.0000	3.0522			0.0000			0.0000
Off-Road	1.5558	17.4203	7.5605	0.0172		0.7654	0.7654		0.7041	0.7041		1,666.5174	1,666.5174	0.5390		1,679.9920
Total	1.5558	17.4203	7.5605	0.0172	6.7116	0.7654	7.4770	3.0522	0.7041	3.7563		1,666.5174	1,666.5174	0.5390		1,679.9920

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	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
Worker	0.0280	0.0200	0.2647	7.7000e-004	0.0894	5.1000e-004	0.0899	0.0237	4.7000e-004	0.0242		77.5377	77.5377	2.1000e-003	2.0300e-003	78.1964
Total	0.0280	0.0200	0.2647	7.7000e-004	0.0894	5.1000e-004	0.0899	0.0237	4.7000e-004	0.0242		77.5377	77.5377	2.1000e-003	2.0300e-003	78.1964

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2021

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					3.0202	0.0000	3.0202	1.3735	0.0000	1.3735			0.0000			0.0000
Off-Road	1.5558	17.4203	7.5605	0.0172		0.7654	0.7654		0.7041	0.7041	0.0000	1,666.5174	1,666.5174	0.5390		1,679.9920
Total	1.5558	17.4203	7.5605	0.0172	3.0202	0.7654	3.7856	1.3735	0.7041	2.0776	0.0000	1,666.5174	1,666.5174	0.5390		1,679.9920

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	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
Worker	0.0280	0.0200	0.2647	7.7000e-004	0.0894	5.1000e-004	0.0899	0.0237	4.7000e-004	0.0242		77.5377	77.5377	2.1000e-003	2.0300e-003	78.1964
Total	0.0280	0.0200	0.2647	7.7000e-004	0.0894	5.1000e-004	0.0899	0.0237	4.7000e-004	0.0242		77.5377	77.5377	2.1000e-003	2.0300e-003	78.1964

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					6.8280	0.0000	6.8280	3.4009	0.0000	3.4009			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425		1,995.6114	1,995.6114	0.6454		2,011.7470
Total	1.8271	20.2135	9.7604	0.0206	6.8280	0.9158	7.7438	3.4009	0.8425	4.2434		1,995.6114	1,995.6114	0.6454		2,011.7470

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	0.5631	17.7100	4.6255	0.0578	1.6351	0.2101	1.8452	0.4478	0.2010	0.6488		6,522.8483	6,522.8483	0.6018	1.0437	6,848.9064
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
Worker	0.0350	0.0251	0.3309	9.6000e-004	0.1118	6.4000e-004	0.1124	0.0296	5.9000e-004	0.0302		96.9221	96.9221	2.6200e-003	2.5400e-003	97.7455
Total	0.5981	17.7351	4.9564	0.0588	1.7469	0.2107	1.9576	0.4774	0.2016	0.6790		6,619.7704	6,619.7704	0.6045	1.0462	6,946.6519

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2021

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					3.0726	0.0000	3.0726	1.5304	0.0000	1.5304			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425	0.0000	1,995.611 4	1,995.611 4	0.6454		2,011.747 0
Total	1.8271	20.2135	9.7604	0.0206	3.0726	0.9158	3.9884	1.5304	0.8425	2.3729	0.0000	1,995.611 4	1,995.611 4	0.6454		2,011.747 0

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	0.5631	17.7100	4.6255	0.0578	1.6351	0.2101	1.8452	0.4478	0.2010	0.6488		6,522.848 3	6,522.848 3	0.6018	1.0437	6,848.906 4
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
Worker	0.0350	0.0251	0.3309	9.6000e-004	0.1118	6.4000e-004	0.1124	0.0296	5.9000e-004	0.0302		96.9221	96.9221	2.6200e-003	2.5400e-003	97.7455
Total	0.5981	17.7351	4.9564	0.0588	1.7469	0.2107	1.9576	0.4774	0.2016	0.6790		6,619.770 4	6,619.770 4	0.6045	1.0462	6,946.651 9

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 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	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517

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	0.0000
Vendor	0.1264	2.9833	1.0006	0.0106	0.3453	0.0437	0.3890	0.0994	0.0418	0.1411		1,152.0338	1,152.0338	0.0648	0.1647	1,202.7319
Worker	0.0630	0.0451	0.5955	1.7200e-003	0.2012	1.1500e-003	0.2024	0.0534	1.0600e-003	0.0544		174.4598	174.4598	4.7200e-003	4.5800e-003	175.9419
Total	0.1894	3.0284	1.5961	0.0123	0.5465	0.0448	0.5913	0.1527	0.0428	0.1956		1,326.4935	1,326.4935	0.0695	0.1693	1,378.6738

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517

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	0.0000
Vendor	0.1264	2.9833	1.0006	0.0106	0.3453	0.0437	0.3890	0.0994	0.0418	0.1411		1,152.0338	1,152.0338	0.0648	0.1647	1,202.7319
Worker	0.0630	0.0451	0.5955	1.7200e-003	0.2012	1.1500e-003	0.2024	0.0534	1.0600e-003	0.0544		174.4598	174.4598	4.7200e-003	4.5800e-003	175.9419
Total	0.1894	3.0284	1.5961	0.0123	0.5465	0.0448	0.5913	0.1527	0.0428	0.1956		1,326.4935	1,326.4935	0.0695	0.1693	1,378.6738

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2022

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	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581

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	0.0000
Vendor	0.0885	2.5179	0.8911	0.0102	0.3453	0.0237	0.3690	0.0994	0.0226	0.1220		1,120.0822	1,120.0822	0.0640	0.1606	1,169.5514
Worker	0.0590	0.0400	0.5512	1.6700e-003	0.2012	1.0900e-003	0.2023	0.0534	1.0000e-003	0.0544		169.8412	169.8412	4.2600e-003	4.2400e-003	171.2111
Total	0.1475	2.5579	1.4424	0.0119	0.5465	0.0248	0.5712	0.1527	0.0236	0.1764		1,289.9234	1,289.9234	0.0683	0.1649	1,340.7625

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581

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	0.0000
Vendor	0.0885	2.5179	0.8911	0.0102	0.3453	0.0237	0.3690	0.0994	0.0226	0.1220		1,120.0822	1,120.0822	0.0640	0.1606	1,169.5514
Worker	0.0590	0.0400	0.5512	1.6700e-003	0.2012	1.0900e-003	0.2023	0.0534	1.0000e-003	0.0544		169.8412	169.8412	4.2600e-003	4.2400e-003	171.2111
Total	0.1475	2.5579	1.4424	0.0119	0.5465	0.0248	0.5712	0.1527	0.0236	0.1764		1,289.9234	1,289.9234	0.0683	0.1649	1,340.7625

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2022

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	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.3789	1,297.3789	0.4113		1,307.6608
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.3789	1,297.3789	0.4113		1,307.6608

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	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
Worker	0.0426	0.0289	0.3981	1.2100e-003	0.1453	7.8000e-004	0.1461	0.0385	7.2000e-004	0.0393		122.6631	122.6631	3.0800e-003	3.0600e-003	123.6524
Total	0.0426	0.0289	0.3981	1.2100e-003	0.1453	7.8000e-004	0.1461	0.0385	7.2000e-004	0.0393		122.6631	122.6631	3.0800e-003	3.0600e-003	123.6524

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2022

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	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205	0.0000	1,297.378 ₉	1,297.378 ₉	0.4113		1,307.660 ₈
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205	0.0000	1,297.378₉	1,297.378₉	0.4113		1,307.660₈

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	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
Worker	0.0426	0.0289	0.3981	1.2100e-003	0.1453	7.8000e-004	0.1461	0.0385	7.2000e-004	0.0393		122.6631	122.6631	3.0800e-003	3.0600e-003	123.6524
Total	0.0426	0.0289	0.3981	1.2100e-003	0.1453	7.8000e-004	0.1461	0.0385	7.2000e-004	0.0393		122.6631	122.6631	3.0800e-003	3.0600e-003	123.6524

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2022

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	43.9104					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	44.1149	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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	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
Worker	0.0131	8.8800e-003	0.1225	3.7000e-004	0.0447	2.4000e-004	0.0450	0.0119	2.2000e-004	0.0121		37.7425	37.7425	9.5000e-004	9.4000e-004	38.0469
Total	0.0131	8.8800e-003	0.1225	3.7000e-004	0.0447	2.4000e-004	0.0450	0.0119	2.2000e-004	0.0121		37.7425	37.7425	9.5000e-004	9.4000e-004	38.0469

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2022

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	43.9104					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	44.1149	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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	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
Worker	0.0131	8.8800e-003	0.1225	3.7000e-004	0.0447	2.4000e-004	0.0450	0.0119	2.2000e-004	0.0121		37.7425	37.7425	9.5000e-004	9.4000e-004	38.0469
Total	0.0131	8.8800e-003	0.1225	3.7000e-004	0.0447	2.4000e-004	0.0450	0.0119	2.2000e-004	0.0121		37.7425	37.7425	9.5000e-004	9.4000e-004	38.0469

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.1759	5.5239	50.0162	0.1118	12.2796	0.0789	12.3585	3.2730	0.0733	3.3463		11,497.21 46	11,497.21 46	0.7402	0.4971	11,663.84 23
Unmitigated	5.1759	5.5239	50.0162	0.1118	12.2796	0.0789	12.3585	3.2730	0.0733	3.3463		11,497.21 46	11,497.21 46	0.7402	0.4971	11,663.84 23

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,903.20	1,903.20	1903.20	5,500,553	5,500,553
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Strip Mall	113.25	113.25	113.25	327,311	327,311
Total	2,016.45	2,016.45	2,016.45	5,827,863	5,827,863

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
Apartments Low Rise	7.94	7.94	7.94	40.20	19.20	40.60	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Strip Mall	7.94	7.94	7.94	16.60	64.40	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.544795	0.058861	0.186903	0.129401	0.024381	0.006522	0.014242	0.004855	0.000656	0.000385	0.024332	0.000723	0.003942
Enclosed Parking with Elevator	0.544795	0.058861	0.186903	0.129401	0.024381	0.006522	0.014242	0.004855	0.000656	0.000385	0.024332	0.000723	0.003942
General Office Building	0.544795	0.058861	0.186903	0.129401	0.024381	0.006522	0.014242	0.004855	0.000656	0.000385	0.024332	0.000723	0.003942
Recreational Swimming Pool	0.544795	0.058861	0.186903	0.129401	0.024381	0.006522	0.014242	0.004855	0.000656	0.000385	0.024332	0.000723	0.003942
Strip Mall	0.544795	0.058861	0.186903	0.129401	0.024381	0.006522	0.014242	0.004855	0.000656	0.000385	0.024332	0.000723	0.003942

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	0.0973	0.8325	0.3614	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.4057	1,061.4057	0.0203	0.0195	1,067.7131
NaturalGas Unmitigated	0.0973	0.8325	0.3614	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.4057	1,061.4057	0.0203	0.0195	1,067.7131

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					
Apartments Low Rise	8846.51	0.0954	0.8153	0.3469	5.2000e-003		0.0659	0.0659		0.0659	0.0659		1,040.7660	1,040.7660	0.0200	0.0191	1,046.9507
Enclosed Parking with Elevator	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
General Office Building	159.082	1.7200e-003	0.0156	0.0131	9.0000e-005		1.1900e-003	1.1900e-003		1.1900e-003	1.1900e-003		18.7155	18.7155	3.6000e-004	3.4000e-004	18.8267
Recreational Swimming Pool	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
Strip Mall	16.3562	1.8000e-004	1.6000e-003	1.3500e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		1.9243	1.9243	4.0000e-005	4.0000e-005	1.9357
Total		0.0973	0.8325	0.3614	5.3000e-003		0.0672	0.0672		0.0672	0.0672		1,061.4057	1,061.4057	0.0204	0.0195	1,067.7131

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	8.84651	0.0954	0.8153	0.3469	5.2000e-003		0.0659	0.0659		0.0659	0.0659		1,040.7660	1,040.7660	0.0200	0.0191	1,046.9507
Enclosed Parking with Elevator	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
General Office Building	0.159082	1.7200e-003	0.0156	0.0131	9.0000e-005		1.1900e-003	1.1900e-003		1.1900e-003	1.1900e-003		18.7155	18.7155	3.6000e-004	3.4000e-004	18.8267
Recreational Swimming Pool	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
Strip Mall	0.0163562	1.8000e-004	1.6000e-003	1.3500e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		1.9243	1.9243	4.0000e-005	4.0000e-005	1.9357
Total		0.0973	0.8325	0.3614	5.3000e-003		0.0672	0.0672		0.0672	0.0672		1,061.4057	1,061.4057	0.0204	0.0195	1,067.7131

6.0 Area Detail

6.1 Mitigation Measures Area

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	6.5174	0.2475	21.4717	1.1300e-003		0.1188	0.1188		0.1188	0.1188	0.0000	38.6592	38.6592	0.0372	0.0000	39.5900
Unmitigated	6.5174	0.2475	21.4717	1.1300e-003		0.1188	0.1188		0.1188	0.1188	0.0000	38.6592	38.6592	0.0372	0.0000	39.5900

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	0.4812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.3882					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6479	0.2475	21.4717	1.1300e-003		0.1188	0.1188		0.1188	0.1188		38.6592	38.6592	0.0372		39.5900
Total	6.5174	0.2475	21.4717	1.1300e-003		0.1188	0.1188		0.1188	0.1188	0.0000	38.6592	38.6592	0.0372	0.0000	39.5900

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.4812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.3882					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6479	0.2475	21.4717	1.1300e-003		0.1188	0.1188		0.1188	0.1188		38.6592	38.6592	0.0372		39.5900
Total	6.5174	0.2475	21.4717	1.1300e-003		0.1188	0.1188		0.1188	0.1188	0.0000	38.6592	38.6592	0.0372	0.0000	39.5900

7.0 Water Detail

7.1 Mitigation Measures Water

OrangethorpePlacentia - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

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
