

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Annual

**Mendota Valley Agricultural Holdings Project v4
Fresno County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.00	1000sqft	0.18	8,000.00	0
Unrefrigerated Warehouse-No Rail	60.00	1000sqft	1.38	60,000.00	0
Other Non-Asphalt Surfaces	55.00	1000sqft	1.26	55,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	45
Climate Zone	3			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use -

Construction Phase - Estimated construction schedule.

Off-road Equipment - Equipment for the site preparation phase.

Off-road Equipment - Equipment for this phase.

Off-road Equipment - Equipment for this phase.

Off-road Equipment - Equipment for this phase.

Off-road Equipment - Equipment for this phase.

Off-road Equipment -

Grading - Assume total 59-acre site area graded.

Architectural Coating - SJVAPCD Rule 4601 limits VOC for architectural coatings at 50 g/L.

Vehicle Trips - General Office Building (worker buildings) accounts for 60 worker trips/day; Unrefrigerated Warehouse (Head Houses) accounts for 60 worker trips + 20 delivery/shipments per day.

Area Coating - SJVAPCD Rule 4601 limits VOC for architectural coatings at 50 g/L.

Water And Wastewater - General Office Building accounts for 2 AFY indoor uses across worker buildings and head houses. Unrefrigerated warehouse accounts for 150 AFY for outdoor cannabis irrigation.

Construction Off-road Equipment Mitigation - SJVAPCD Rule 8501 requires measures to reduce visible dust emissions by 20%.

Area Mitigation - SJVAPCD Rule 4601 limits VOC for architectural coatings at 50 g/L.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	50
tblAreaCoating	Area_EF_Nonresidential_Interior	150	50
tblAreaCoating	Area_EF_Parking	150	100
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	50

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tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	150	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	4.00
tblConstructionPhase	NumDays	220.00	50.00
tblConstructionPhase	NumDays	6.00	10.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	3.00	5.00
tblConstructionPhase	PhaseEndDate	1/12/2022	6/30/2021
tblConstructionPhase	PhaseEndDate	12/15/2021	5/27/2021
tblConstructionPhase	PhaseEndDate	1/28/2021	3/18/2021
tblConstructionPhase	PhaseEndDate	2/10/2021	1/21/2021
tblConstructionPhase	PhaseEndDate	12/29/2021	6/24/2021
tblConstructionPhase	PhaseEndDate	2/2/2021	1/7/2021
tblConstructionPhase	PhaseStartDate	12/30/2021	6/25/2021
tblConstructionPhase	PhaseStartDate	2/11/2021	3/19/2021
tblConstructionPhase	PhaseStartDate	1/1/2021	1/22/2021
tblConstructionPhase	PhaseStartDate	2/3/2021	1/8/2021
tblConstructionPhase	PhaseStartDate	12/16/2021	5/28/2021
tblConstructionPhase	PhaseStartDate	1/29/2021	1/1/2021
tblGrading	AcresOfGrading	5.00	59.00
tblGrading	AcresOfGrading	7.50	59.00
tblOffRoadEquipment	HorsePower	158.00	81.00
tblOffRoadEquipment	HorsePower	9.00	231.00
tblOffRoadEquipment	HorsePower	78.00	247.00
tblOffRoadEquipment	HorsePower	247.00	367.00

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tbloffRoadEquipment	HorsePower	158.00	187.00
tbloffRoadEquipment	LoadFactor	0.38	0.73
tbloffRoadEquipment	LoadFactor	0.56	0.29
tbloffRoadEquipment	LoadFactor	0.50	0.40
tbloffRoadEquipment	LoadFactor	0.40	0.48
tbloffRoadEquipment	LoadFactor	0.38	0.41
tbloffRoadEquipment	OffRoadEquipmentType	Concrete/Industrial Saws	Excavators
tbloffRoadEquipment	OffRoadEquipmentType	Cranes	Cement and Mortar Mixers
tbloffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Trenchers
tbloffRoadEquipment	OffRoadEquipmentType	Scrapers	Rubber Tired Dozers
tbloffRoadEquipment	OffRoadEquipmentType		Excavators
tbloffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tbloffRoadEquipment	PhaseName		Utility Trenching
tbloffRoadEquipment	PhaseName		Utility Trenching
tbloffRoadEquipment	PhaseName		Utility Trenching
tbloffRoadEquipment	PhaseName		Grading

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tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	2.46	7.50
tblVehicleTrips	ST_TR	1.68	1.33
tblVehicleTrips	SU_TR	1.05	7.50
tblVehicleTrips	SU_TR	1.68	1.33
tblVehicleTrips	WD_TR	11.03	7.50
tblVehicleTrips	WD_TR	1.68	1.33
tblWater	IndoorWaterUseRate	1,421,869.98	9,583.85
tblWater	IndoorWaterUseRate	13,875,000.00	0.00
tblWater	OutdoorWaterUseRate	871,468.70	0.00
tblWater	OutdoorWaterUseRate	0.00	28,300.00

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2021	3-31-2021	0.6214	0.3966
2	4-1-2021	6-30-2021	0.5654	0.5654
		Highest	0.6214	0.5654

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2858	1.0000e-005	1.1300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-003	2.2000e-003	1.0000e-005	0.0000	2.3400e-003
Energy	6.4100e-003	0.0583	0.0490	3.5000e-004		4.4300e-003	4.4300e-003		4.4300e-003	4.4300e-003	0.0000	248.5847	248.5847	9.5900e-003	2.9000e-003	249.6872
Mobile	0.0568	0.6985	0.5905	3.0800e-003	0.1817	2.8100e-003	0.1845	0.0490	2.6600e-003	0.0516	0.0000	286.9539	286.9539	0.0256	0.0000	287.5938
Waste						0.0000	0.0000		0.0000	0.0000	12.9589	0.0000	12.9589	0.7659	0.0000	32.1052
Water						0.0000	0.0000		0.0000	0.0000	3.0400e-003	0.0439	0.0469	3.1000e-004	1.0000e-005	0.0571
Total	0.3490	0.7568	0.6406	3.4300e-003	0.1817	7.2400e-003	0.1889	0.0490	7.0900e-003	0.0561	12.9620	535.5846	548.5466	0.8014	2.9100e-003	569.4457

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2858	1.0000e-005	1.1300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-003	2.2000e-003	1.0000e-005	0.0000	2.3400e-003
Energy	6.4100e-003	0.0583	0.0490	3.5000e-004		4.4300e-003	4.4300e-003		4.4300e-003	4.4300e-003	0.0000	248.5847	248.5847	9.5900e-003	2.9000e-003	249.6872
Mobile	0.0568	0.6985	0.5905	3.0800e-003	0.1817	2.8100e-003	0.1845	0.0490	2.6600e-003	0.0516	0.0000	286.9539	286.9539	0.0256	0.0000	287.5938
Waste						0.0000	0.0000		0.0000	0.0000	12.9589	0.0000	12.9589	0.7659	0.0000	32.1052
Water						0.0000	0.0000		0.0000	0.0000	3.0400e-003	0.0439	0.0469	3.1000e-004	1.0000e-005	0.0571
Total	0.3490	0.7568	0.6406	3.4300e-003	0.1817	7.2400e-003	0.1889	0.0490	7.0900e-003	0.0561	12.9620	535.5846	548.5466	0.8014	2.9100e-003	569.4457

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

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2021	1/7/2021	5	5	
2	Grading	Grading	1/8/2021	1/21/2021	5	10	
3	Utility Trenching	Trenching	1/22/2021	3/18/2021	5	40	Trenching and installation for utilities.
4	Building Construction	Building Construction	3/19/2021	5/27/2021	5	50	
5	Paving	Paving	5/28/2021	6/24/2021	5	20	
6	Architectural Coating	Architectural Coating	6/25/2021	6/30/2021	5	4	

Acres of Grading (Site Preparation Phase): 59

Acres of Grading (Grading Phase): 59

Acres of Paving: 1.26

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 102,000; Non-Residential Outdoor: 34,000; Striped Parking Area: 3,300 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Utility Trenching	Excavators	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cement and Mortar Mixers	1	8.00	231	0.29
Building Construction	Forklifts	1	7.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Utility Trenching	Trenchers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Utility Trenching	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	8.00	367	0.48
Building Construction	Welders	2	8.00	46	0.45
Grading	Excavators	1	8.00	187	0.41
Grading	Plate Compactors	2	6.00	8	0.43

Trips and VMT

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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
Utility Trenching	5	13.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	51.00	20.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

3.2 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					0.0313	0.0000	0.0313	3.3800e-003	0.0000	3.3800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3700e-003	0.0584	0.0408	6.0000e-005		2.5200e-003	2.5200e-003		2.3100e-003	2.3100e-003	0.0000	5.4276	5.4276	1.7600e-003	0.0000	5.4715
Total	5.3700e-003	0.0584	0.0408	6.0000e-005	0.0313	2.5200e-003	0.0338	3.3800e-003	2.3100e-003	5.6900e-003	0.0000	5.4276	5.4276	1.7600e-003	0.0000	5.4715

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3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	7.0000e-005	7.3000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2057	0.2057	0.0000	0.0000	0.2058
Total	1.1000e-004	7.0000e-005	7.3000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2057	0.2057	0.0000	0.0000	0.2058

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0141	0.0000	0.0141	1.5200e-003	0.0000	1.5200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3700e-003	0.0584	0.0408	6.0000e-005		2.5200e-003	2.5200e-003		2.3100e-003	2.3100e-003	0.0000	5.4276	5.4276	1.7600e-003	0.0000	5.4715
Total	5.3700e-003	0.0584	0.0408	6.0000e-005	0.0141	2.5200e-003	0.0166	1.5200e-003	2.3100e-003	3.8300e-003	0.0000	5.4276	5.4276	1.7600e-003	0.0000	5.4715

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3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	7.0000e-005	7.3000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2057	0.2057	0.0000	0.0000	0.2058
Total	1.1000e-004	7.0000e-005	7.3000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2057	0.2057	0.0000	0.0000	0.2058

3.3 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					0.0614	0.0000	0.0614	0.0199	0.0000	0.0199	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.1228	0.0677	1.5000e-004		5.4900e-003	5.4900e-003		5.0600e-003	5.0600e-003	0.0000	13.3746	13.3746	4.2700e-003	0.0000	13.4814
Total	0.0114	0.1228	0.0677	1.5000e-004	0.0614	5.4900e-003	0.0669	0.0199	5.0600e-003	0.0250	0.0000	13.3746	13.3746	4.2700e-003	0.0000	13.4814

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3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.8000e-004	1.8200e-003	1.0000e-005	6.2000e-004	0.0000	6.3000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5142	0.5142	1.0000e-005	0.0000	0.5145
Total	2.8000e-004	1.8000e-004	1.8200e-003	1.0000e-005	6.2000e-004	0.0000	6.3000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5142	0.5142	1.0000e-005	0.0000	0.5145

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0276	0.0000	0.0276	8.9700e-003	0.0000	8.9700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.1094	0.0677	1.5000e-004		5.4900e-003	5.4900e-003		5.0600e-003	5.0600e-003	0.0000	13.3746	13.3746	4.2700e-003	0.0000	13.4814
Total	0.0114	0.1094	0.0677	1.5000e-004	0.0276	5.4900e-003	0.0331	8.9700e-003	5.0600e-003	0.0140	0.0000	13.3746	13.3746	4.2700e-003	0.0000	13.4814

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3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.8000e-004	1.8200e-003	1.0000e-005	6.2000e-004	0.0000	6.3000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5142	0.5142	1.0000e-005	0.0000	0.5145
Total	2.8000e-004	1.8000e-004	1.8200e-003	1.0000e-005	6.2000e-004	0.0000	6.3000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5142	0.5142	1.0000e-005	0.0000	0.5145

3.4 Utility Trenching - 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	0.0294	0.3251	0.2666	4.6000e-004		0.0161	0.0161		0.0148	0.0148	0.0000	40.2110	40.2110	0.0130	0.0000	40.5362
Total	0.0294	0.3251	0.2666	4.6000e-004		0.0161	0.0161		0.0148	0.0148	0.0000	40.2110	40.2110	0.0130	0.0000	40.5362

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3.4 Utility Trenching - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4400e-003	9.4000e-004	9.4700e-003	3.0000e-005	3.2300e-003	2.0000e-005	3.2500e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.6739	2.6739	6.0000e-005	0.0000	2.6755
Total	1.4400e-003	9.4000e-004	9.4700e-003	3.0000e-005	3.2300e-003	2.0000e-005	3.2500e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.6739	2.6739	6.0000e-005	0.0000	2.6755

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	0.0294	0.1138	0.2666	4.6000e-004		0.0161	0.0161		0.0148	0.0148	0.0000	40.2110	40.2110	0.0130	0.0000	40.5361
Total	0.0294	0.1138	0.2666	4.6000e-004		0.0161	0.0161		0.0148	0.0148	0.0000	40.2110	40.2110	0.0130	0.0000	40.5361

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3.4 Utility Trenching - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4400e-003	9.4000e-004	9.4700e-003	3.0000e-005	3.2300e-003	2.0000e-005	3.2500e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.6739	2.6739	6.0000e-005	0.0000	2.6755
Total	1.4400e-003	9.4000e-004	9.4700e-003	3.0000e-005	3.2300e-003	2.0000e-005	3.2500e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.6739	2.6739	6.0000e-005	0.0000	2.6755

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	0.0339	0.2515	0.2884	4.4000e-004		0.0139	0.0139		0.0134	0.0134	0.0000	36.7153	36.7153	6.2100e-003	0.0000	36.8705
Total	0.0339	0.2515	0.2884	4.4000e-004		0.0139	0.0139		0.0134	0.0134	0.0000	36.7153	36.7153	6.2100e-003	0.0000	36.8705

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3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4300e-003	0.0542	8.1800e-003	1.3000e-004	3.0000e-003	1.4000e-004	3.1400e-003	8.7000e-004	1.3000e-004	1.0000e-003	0.0000	12.3808	12.3808	1.6100e-003	0.0000	12.4209
Worker	7.0700e-003	4.5900e-003	0.0464	1.5000e-004	0.0159	9.0000e-005	0.0159	4.2100e-003	9.0000e-005	4.3000e-003	0.0000	13.1124	13.1124	3.1000e-004	0.0000	13.1202
Total	8.5000e-003	0.0588	0.0546	2.8000e-004	0.0189	2.3000e-004	0.0191	5.0800e-003	2.2000e-004	5.3000e-003	0.0000	25.4932	25.4932	1.9200e-003	0.0000	25.5411

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	0.0339	0.2515	0.2884	4.4000e-004		0.0139	0.0139		0.0134	0.0134	0.0000	36.7152	36.7152	6.2100e-003	0.0000	36.8704
Total	0.0339	0.2515	0.2884	4.4000e-004		0.0139	0.0139		0.0134	0.0134	0.0000	36.7152	36.7152	6.2100e-003	0.0000	36.8704

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3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4300e-003	0.0542	8.1800e-003	1.3000e-004	3.0000e-003	1.4000e-004	3.1400e-003	8.7000e-004	1.3000e-004	1.0000e-003	0.0000	12.3808	12.3808	1.6100e-003	0.0000	12.4209
Worker	7.0700e-003	4.5900e-003	0.0464	1.5000e-004	0.0159	9.0000e-005	0.0159	4.2100e-003	9.0000e-005	4.3000e-003	0.0000	13.1124	13.1124	3.1000e-004	0.0000	13.1202
Total	8.5000e-003	0.0588	0.0546	2.8000e-004	0.0189	2.3000e-004	0.0191	5.0800e-003	2.2000e-004	5.3000e-003	0.0000	25.4932	25.4932	1.9200e-003	0.0000	25.5411

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.7400e-003	0.0872	0.0990	1.5000e-004		4.6500e-003	4.6500e-003		4.2900e-003	4.2900e-003	0.0000	13.1997	13.1997	4.1700e-003	0.0000	13.3040
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.7400e-003	0.0872	0.0990	1.5000e-004		4.6500e-003	4.6500e-003		4.2900e-003	4.2900e-003	0.0000	13.1997	13.1997	4.1700e-003	0.0000	13.3040

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3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	5.4000e-004	5.4600e-003	2.0000e-005	1.8600e-003	1.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.5426	1.5426	4.0000e-005	0.0000	1.5436
Total	8.3000e-004	5.4000e-004	5.4600e-003	2.0000e-005	1.8600e-003	1.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.5426	1.5426	4.0000e-005	0.0000	1.5436

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	8.7400e-003	0.0872	0.0990	1.5000e-004		4.6500e-003	4.6500e-003		4.2900e-003	4.2900e-003	0.0000	13.1997	13.1997	4.1700e-003	0.0000	13.3039
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.7400e-003	0.0872	0.0990	1.5000e-004		4.6500e-003	4.6500e-003		4.2900e-003	4.2900e-003	0.0000	13.1997	13.1997	4.1700e-003	0.0000	13.3039

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3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	5.4000e-004	5.4600e-003	2.0000e-005	1.8600e-003	1.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.5426	1.5426	4.0000e-005	0.0000	1.5436
Total	8.3000e-004	5.4000e-004	5.4600e-003	2.0000e-005	1.8600e-003	1.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.5426	1.5426	4.0000e-005	0.0000	1.5436

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1652					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4000e-004	3.0500e-003	3.6400e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	0.5107	0.5107	4.0000e-005	0.0000	0.5115
Total	0.1657	3.0500e-003	3.6400e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	0.5107	0.5107	4.0000e-005	0.0000	0.5115

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3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	7.0000e-005	7.3000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2057	0.2057	0.0000	0.0000	0.2058
Total	1.1000e-004	7.0000e-005	7.3000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2057	0.2057	0.0000	0.0000	0.2058

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	0.1652					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4000e-004	3.0500e-003	3.6400e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	0.5107	0.5107	4.0000e-005	0.0000	0.5115
Total	0.1657	3.0500e-003	3.6400e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	0.5107	0.5107	4.0000e-005	0.0000	0.5115

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3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	7.0000e-005	7.3000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2057	0.2057	0.0000	0.0000	0.2058
Total	1.1000e-004	7.0000e-005	7.3000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2057	0.2057	0.0000	0.0000	0.2058

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0568	0.6985	0.5905	3.0800e-003	0.1817	2.8100e-003	0.1845	0.0490	2.6600e-003	0.0516	0.0000	286.9539	286.9539	0.0256	0.0000	287.5938
Unmitigated	0.0568	0.6985	0.5905	3.0800e-003	0.1817	2.8100e-003	0.1845	0.0490	2.6600e-003	0.0516	0.0000	286.9539	286.9539	0.0256	0.0000	287.5938

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	60.00	60.00	60.00	165,649	165,649
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	79.80	79.80	79.80	308,305	308,305
Total	139.80	139.80	139.80	473,954	473,954

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.487139	0.031901	0.169199	0.121386	0.017033	0.004732	0.033028	0.124746	0.002366	0.001590	0.005154	0.001097	0.000629
Other Non-Asphalt Surfaces	0.487139	0.031901	0.169199	0.121386	0.017033	0.004732	0.033028	0.124746	0.002366	0.001590	0.005154	0.001097	0.000629
Unrefrigerated Warehouse-No Rail	0.487139	0.031901	0.169199	0.121386	0.017033	0.004732	0.033028	0.124746	0.002366	0.001590	0.005154	0.001097	0.000629

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	185.1244	185.1244	8.3700e-003	1.7300e-003	185.8498
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	185.1244	185.1244	8.3700e-003	1.7300e-003	185.8498
NaturalGas Mitigated	6.4100e-003	0.0583	0.0490	3.5000e-004		4.4300e-003	4.4300e-003		4.4300e-003	4.4300e-003	0.0000	63.4602	63.4602	1.2200e-003	1.1600e-003	63.8374
NaturalGas Unmitigated	6.4100e-003	0.0583	0.0490	3.5000e-004		4.4300e-003	4.4300e-003		4.4300e-003	4.4300e-003	0.0000	63.4602	63.4602	1.2200e-003	1.1600e-003	63.8374

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	104400	5.6000e-004	5.1200e-003	4.3000e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.5712	5.5712	1.1000e-004	1.0000e-004	5.6043
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.0848e+006	5.8500e-003	0.0532	0.0447	3.2000e-004		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003	0.0000	57.8891	57.8891	1.1100e-003	1.0600e-003	58.2331
Total		6.4100e-003	0.0583	0.0490	3.5000e-004		4.4300e-003	4.4300e-003		4.4300e-003	4.4300e-003	0.0000	63.4602	63.4602	1.2200e-003	1.1600e-003	63.8374

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	104400	5.6000e-004	5.1200e-003	4.3000e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.5712	5.5712	1.1000e-004	1.0000e-004	5.6043
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.0848e+006	5.8500e-003	0.0532	0.0447	3.2000e-004		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003	0.0000	57.8891	57.8891	1.1100e-003	1.0600e-003	58.2331
Total		6.4100e-003	0.0583	0.0490	3.5000e-004		4.4300e-003	4.4300e-003		4.4300e-003	4.4300e-003	0.0000	63.4602	63.4602	1.2200e-003	1.1600e-003	63.8374

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	72960	21.2249	9.6000e-004	2.0000e-004	21.3081
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	563400	163.8995	7.4100e-003	1.5300e-003	164.5417
Total		185.1244	8.3700e-003	1.7300e-003	185.8498

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	72960	21.2249	9.6000e-004	2.0000e-004	21.3081
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	563400	163.8995	7.4100e-003	1.5300e-003	164.5417
Total		185.1244	8.3700e-003	1.7300e-003	185.8498

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6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	0.2858	1.0000e-005	1.1300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-003	2.2000e-003	1.0000e-005	0.0000	2.3400e-003
Unmitigated	0.2858	1.0000e-005	1.1300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-003	2.2000e-003	1.0000e-005	0.0000	2.3400e-003

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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	0.0165					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2691					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1000e-004	1.0000e-005	1.1300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-003	2.2000e-003	1.0000e-005	0.0000	2.3400e-003
Total	0.2858	1.0000e-005	1.1300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-003	2.2000e-003	1.0000e-005	0.0000	2.3400e-003

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	0.0165					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2691					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1000e-004	1.0000e-005	1.1300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-003	2.2000e-003	1.0000e-005	0.0000	2.3400e-003
Total	0.2858	1.0000e-005	1.1300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-003	2.2000e-003	1.0000e-005	0.0000	2.3400e-003

7.0 Water Detail

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7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0469	3.1000e-004	1.0000e-005	0.0571
Unmitigated	0.0469	3.1000e-004	1.0000e-005	0.0571

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.00958385 / 0	0.0181	3.1000e-004	1.0000e-005	0.0282
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0.0283	0.0288	0.0000	0.0000	0.0289
Total		0.0469	3.1000e-004	1.0000e-005	0.0571

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.00958385 / 0	0.0181	3.1000e-004	1.0000e-005	0.0282
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0.0283	0.0288	0.0000	0.0000	0.0289
Total		0.0469	3.1000e-004	1.0000e-005	0.0571

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	12.9589	0.7659	0.0000	32.1052
Unmitigated	12.9589	0.7659	0.0000	32.1052

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	7.44	1.5103	0.0893	0.0000	3.7416
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	56.4	11.4487	0.6766	0.0000	28.3637
Total		12.9589	0.7659	0.0000	32.1052

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	7.44	1.5103	0.0893	0.0000	3.7416
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	56.4	11.4487	0.6766	0.0000	28.3637
Total		12.9589	0.7659	0.0000	32.1052

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
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

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

Equipment Type	Number
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11.0 Vegetation

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**Mendota Valley Agricultural Holdings Project v4
Fresno County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.00	1000sqft	0.18	8,000.00	0
Unrefrigerated Warehouse-No Rail	60.00	1000sqft	1.38	60,000.00	0
Other Non-Asphalt Surfaces	55.00	1000sqft	1.26	55,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	45
Climate Zone	3			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Summer

Project Characteristics -

Land Use -

Construction Phase - Estimated construction schedule.

Off-road Equipment - Equipment for the site preparation phase.

Off-road Equipment - Equipment for this phase.

Off-road Equipment - Equipment for this phase.

Off-road Equipment - Equipment for this phase.

Off-road Equipment - Equipment for this phase.

Off-road Equipment -

Grading - Assume total 59-acre site area graded.

Architectural Coating - SJVAPCD Rule 4601 limits VOC for architectural coatings at 50 g/L.

Vehicle Trips - General Office Building (worker buildings) accounts for 60 worker trips/day; Unrefrigerated Warehouse (Head Houses) accounts for 60 worker trips + 20 delivery/shipments per day.

Area Coating - SJVAPCD Rule 4601 limits VOC for architectural coatings at 50 g/L.

Water And Wastewater - General Office Building accounts for 2 AFY indoor uses across worker buildings and head houses. Unrefrigerated warehouse accounts for 150 AFY for outdoor cannabis irrigation.

Construction Off-road Equipment Mitigation - SJVAPCD Rule 8501 requires measures to reduce visible dust emissions by 20%.

Area Mitigation - SJVAPCD Rule 4601 limits VOC for architectural coatings at 50 g/L.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	50
tblAreaCoating	Area_EF_Nonresidential_Interior	150	50
tblAreaCoating	Area_EF_Parking	150	100
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	50

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tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	150	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	4.00
tblConstructionPhase	NumDays	220.00	50.00
tblConstructionPhase	NumDays	6.00	10.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	3.00	5.00
tblConstructionPhase	PhaseEndDate	1/12/2022	6/30/2021
tblConstructionPhase	PhaseEndDate	12/15/2021	5/27/2021
tblConstructionPhase	PhaseEndDate	1/28/2021	3/18/2021
tblConstructionPhase	PhaseEndDate	2/10/2021	1/21/2021
tblConstructionPhase	PhaseEndDate	12/29/2021	6/24/2021
tblConstructionPhase	PhaseEndDate	2/2/2021	1/7/2021
tblConstructionPhase	PhaseStartDate	12/30/2021	6/25/2021
tblConstructionPhase	PhaseStartDate	2/11/2021	3/19/2021
tblConstructionPhase	PhaseStartDate	1/1/2021	1/22/2021
tblConstructionPhase	PhaseStartDate	2/3/2021	1/8/2021
tblConstructionPhase	PhaseStartDate	12/16/2021	5/28/2021
tblConstructionPhase	PhaseStartDate	1/29/2021	1/1/2021
tblGrading	AcresOfGrading	5.00	59.00
tblGrading	AcresOfGrading	7.50	59.00
tblOffRoadEquipment	HorsePower	158.00	81.00
tblOffRoadEquipment	HorsePower	9.00	231.00
tblOffRoadEquipment	HorsePower	78.00	247.00
tblOffRoadEquipment	HorsePower	247.00	367.00

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tbloffRoadEquipment	HorsePower	158.00	187.00
tbloffRoadEquipment	LoadFactor	0.38	0.73
tbloffRoadEquipment	LoadFactor	0.56	0.29
tbloffRoadEquipment	LoadFactor	0.50	0.40
tbloffRoadEquipment	LoadFactor	0.40	0.48
tbloffRoadEquipment	LoadFactor	0.38	0.41
tbloffRoadEquipment	OffRoadEquipmentType	Concrete/Industrial Saws	Excavators
tbloffRoadEquipment	OffRoadEquipmentType	Cranes	Cement and Mortar Mixers
tbloffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Trenchers
tbloffRoadEquipment	OffRoadEquipmentType	Scrapers	Rubber Tired Dozers
tbloffRoadEquipment	OffRoadEquipmentType		Excavators
tbloffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tbloffRoadEquipment	PhaseName		Utility Trenching
tbloffRoadEquipment	PhaseName		Utility Trenching
tbloffRoadEquipment	PhaseName		Utility Trenching
tbloffRoadEquipment	PhaseName		Grading

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tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	2.46	7.50
tblVehicleTrips	ST_TR	1.68	1.33
tblVehicleTrips	SU_TR	1.05	7.50
tblVehicleTrips	SU_TR	1.68	1.33
tblVehicleTrips	WD_TR	11.03	7.50
tblVehicleTrips	WD_TR	1.68	1.33
tblWater	IndoorWaterUseRate	1,421,869.98	9,583.85
tblWater	IndoorWaterUseRate	13,875,000.00	0.00
tblWater	OutdoorWaterUseRate	871,468.70	0.00
tblWater	OutdoorWaterUseRate	0.00	28,300.00

2.0 Emissions Summary

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Summer

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	1.5664	1.2000e-004	0.0126	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0269	0.0269	7.0000e-005		0.0287
Energy	0.0351	0.3194	0.2683	1.9200e-003		0.0243	0.0243		0.0243	0.0243		383.3038	383.3038	7.3500e-003	7.0300e-003	385.5816
Mobile	0.3651	3.7727	3.5701	0.0178	1.0249	0.0153	1.0402	0.2757	0.0145	0.2902		1,826.7465	1,826.7465	0.1502		1,830.5024
Total	1.9666	4.0923	3.8510	0.0197	1.0249	0.0397	1.0645	0.2757	0.0388	0.3145		2,210.0772	2,210.0772	0.1577	7.0300e-003	2,216.1127

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.5664	1.2000e-004	0.0126	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0269	0.0269	7.0000e-005		0.0287
Energy	0.0351	0.3194	0.2683	1.9200e-003		0.0243	0.0243		0.0243	0.0243		383.3038	383.3038	7.3500e-003	7.0300e-003	385.5816
Mobile	0.3651	3.7727	3.5701	0.0178	1.0249	0.0153	1.0402	0.2757	0.0145	0.2902		1,826.7465	1,826.7465	0.1502		1,830.5024
Total	1.9666	4.0923	3.8510	0.0197	1.0249	0.0397	1.0645	0.2757	0.0388	0.3145		2,210.0772	2,210.0772	0.1577	7.0300e-003	2,216.1127

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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	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	Site Preparation	Site Preparation	1/1/2021	1/7/2021	5	5	
2	Grading	Grading	1/8/2021	1/21/2021	5	10	
3	Utility Trenching	Trenching	1/22/2021	3/18/2021	5	40	Trenching and installation for utilities.
4	Building Construction	Building Construction	3/19/2021	5/27/2021	5	50	
5	Paving	Paving	5/28/2021	6/24/2021	5	20	
6	Architectural Coating	Architectural Coating	6/25/2021	6/30/2021	5	4	

Acres of Grading (Site Preparation Phase): 59

Acres of Grading (Grading Phase): 59

Acres of Paving: 1.26

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 102,000; Non-Residential Outdoor: 34,000; Striped Parking Area: 3,300 (Architectural Coating – sqft)

OffRoad Equipment

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Utility Trenching	Excavators	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cement and Mortar Mixers	1	8.00	231	0.29
Building Construction	Forklifts	1	7.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Utility Trenching	Trenchers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Utility Trenching	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	8.00	367	0.48
Building Construction	Welders	2	8.00	46	0.45
Grading	Excavators	1	8.00	187	0.41
Grading	Plate Compactors	2	6.00	8	0.43

Trips and VMT

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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
Utility Trenching	5	13.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	51.00	20.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

3.2 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					12.5139	0.0000	12.5139	1.3512	0.0000	1.3512			0.0000			0.0000
Off-Road	2.1462	23.3697	16.3002	0.0247		1.0065	1.0065		0.9260	0.9260		2,393.1504	2,393.1504	0.7740		2,412.5002
Total	2.1462	23.3697	16.3002	0.0247	12.5139	1.0065	13.5204	1.3512	0.9260	2.2772		2,393.1504	2,393.1504	0.7740		2,412.5002

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3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0487	0.0269	0.3449	1.0000e-003	0.1022	5.9000e-004	0.1028	0.0271	5.4000e-004	0.0276		99.5249	99.5249	2.4100e-003		99.5852
Total	0.0487	0.0269	0.3449	1.0000e-003	0.1022	5.9000e-004	0.1028	0.0271	5.4000e-004	0.0276		99.5249	99.5249	2.4100e-003		99.5852

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					5.6313	0.0000	5.6313	0.6080	0.0000	0.6080			0.0000			0.0000
Off-Road	2.1462	23.3697	16.3002	0.0247		1.0065	1.0065		0.9260	0.9260	0.0000	2,393.1504	2,393.1504	0.7740		2,412.5002
Total	2.1462	23.3697	16.3002	0.0247	5.6313	1.0065	6.6378	0.6080	0.9260	1.5340	0.0000	2,393.1504	2,393.1504	0.7740		2,412.5002

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3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0487	0.0269	0.3449	1.0000e-003	0.1022	5.9000e-004	0.1028	0.0271	5.4000e-004	0.0276		99.5249	99.5249	2.4100e-003		99.5852
Total	0.0487	0.0269	0.3449	1.0000e-003	0.1022	5.9000e-004	0.1028	0.0271	5.4000e-004	0.0276		99.5249	99.5249	2.4100e-003		99.5852

3.3 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					12.2790	0.0000	12.2790	3.9858	0.0000	3.9858			0.0000			0.0000
Off-Road	2.2712	24.5558	13.5456	0.0306		1.0989	1.0989		1.0121	1.0121		2,948.5896	2,948.5896	0.9423		2,972.1465
Total	2.2712	24.5558	13.5456	0.0306	12.2790	1.0989	13.3779	3.9858	1.0121	4.9980		2,948.5896	2,948.5896	0.9423		2,972.1465

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Summer

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0609	0.0336	0.4311	1.2500e-003	0.1277	7.4000e-004	0.1285	0.0339	6.8000e-004	0.0346		124.4061	124.4061	3.0100e-003		124.4815
Total	0.0609	0.0336	0.4311	1.2500e-003	0.1277	7.4000e-004	0.1285	0.0339	6.8000e-004	0.0346		124.4061	124.4061	3.0100e-003		124.4815

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					5.5256	0.0000	5.5256	1.7936	0.0000	1.7936			0.0000			0.0000
Off-Road	2.2712	21.8724	13.5456	0.0306		1.0989	1.0989		1.0121	1.0121	0.0000	2,948.5896	2,948.5896	0.9423		2,972.1465
Total	2.2712	21.8724	13.5456	0.0306	5.5256	1.0989	6.6245	1.7936	1.0121	2.8058	0.0000	2,948.5896	2,948.5896	0.9423		2,972.1465

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Summer

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0609	0.0336	0.4311	1.2500e-003	0.1277	7.4000e-004	0.1285	0.0339	6.8000e-004	0.0346		124.4061	124.4061	3.0100e-003		124.4815
Total	0.0609	0.0336	0.4311	1.2500e-003	0.1277	7.4000e-004	0.1285	0.0339	6.8000e-004	0.0346		124.4061	124.4061	3.0100e-003		124.4815

3.4 Utility Trenching - 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	1.4696	16.2566	13.3294	0.0229		0.8023	0.8023		0.7381	0.7381		2,216.2535	2,216.2535	0.7168		2,234.1730
Total	1.4696	16.2566	13.3294	0.0229		0.8023	0.8023		0.7381	0.7381		2,216.2535	2,216.2535	0.7168		2,234.1730

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Summer

3.4 Utility Trenching - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0792	0.0437	0.5605	1.6200e-003	0.1661	9.6000e-004	0.1670	0.0440	8.8000e-004	0.0449		161.7279	161.7279	3.9200e-003		161.8259
Total	0.0792	0.0437	0.5605	1.6200e-003	0.1661	9.6000e-004	0.1670	0.0440	8.8000e-004	0.0449		161.7279	161.7279	3.9200e-003		161.8259

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	1.4696	5.6874	13.3294	0.0229		0.8023	0.8023		0.7381	0.7381	0.0000	2,216.2535	2,216.2535	0.7168		2,234.1730
Total	1.4696	5.6874	13.3294	0.0229		0.8023	0.8023		0.7381	0.7381	0.0000	2,216.2535	2,216.2535	0.7168		2,234.1730

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Summer

3.4 Utility Trenching - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0792	0.0437	0.5605	1.6200e-003	0.1661	9.6000e-004	0.1670	0.0440	8.8000e-004	0.0449		161.7279	161.7279	3.9200e-003		161.8259
Total	0.0792	0.0437	0.5605	1.6200e-003	0.1661	9.6000e-004	0.1670	0.0440	8.8000e-004	0.0449		161.7279	161.7279	3.9200e-003		161.8259

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	1.3568	10.0594	11.5346	0.0177		0.5569	0.5569		0.5376	0.5376		1,618.8671	1,618.8671	0.2737		1,625.7094
Total	1.3568	10.0594	11.5346	0.0177		0.5569	0.5569		0.5376	0.5376		1,618.8671	1,618.8671	0.2737		1,625.7094

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Summer

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0560	2.1454	0.3000	5.2800e-003	0.1226	5.4400e-003	0.1280	0.0353	5.2100e-003	0.0405		553.7501	553.7501	0.0670		555.4237
Worker	0.3106	0.1712	2.1987	6.3700e-003	0.6514	3.7600e-003	0.6552	0.1728	3.4700e-003	0.1762		634.4710	634.4710	0.0154		634.8554
Total	0.3666	2.3166	2.4987	0.0117	0.7740	9.2000e-003	0.7832	0.2081	8.6800e-003	0.2167		1,188.2211	1,188.2211	0.0823		1,190.2791

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	1.3568	10.0594	11.5346	0.0177		0.5569	0.5569		0.5376	0.5376	0.0000	1,618.8671	1,618.8671	0.2737		1,625.7094
Total	1.3568	10.0594	11.5346	0.0177		0.5569	0.5569		0.5376	0.5376	0.0000	1,618.8671	1,618.8671	0.2737		1,625.7094

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Summer

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0560	2.1454	0.3000	5.2800e-003	0.1226	5.4400e-003	0.1280	0.0353	5.2100e-003	0.0405		553.7501	553.7501	0.0670		555.4237
Worker	0.3106	0.1712	2.1987	6.3700e-003	0.6514	3.7600e-003	0.6552	0.1728	3.4700e-003	0.1762		634.4710	634.4710	0.0154		634.8554
Total	0.3666	2.3166	2.4987	0.0117	0.7740	9.2000e-003	0.7832	0.2081	8.6800e-003	0.2167		1,188.2211	1,188.2211	0.0823		1,190.2791

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8738	8.7235	9.8952	0.0152		0.4650	0.4650		0.4289	0.4289		1,455.0218	1,455.0218	0.4595		1,466.5091
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8738	8.7235	9.8952	0.0152		0.4650	0.4650		0.4289	0.4289		1,455.0218	1,455.0218	0.4595		1,466.5091

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Summer

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0914	0.0504	0.6467	1.8700e-003	0.1916	1.1100e-003	0.1927	0.0508	1.0200e-003	0.0518		186.6091	186.6091	4.5200e-003		186.7222
Total	0.0914	0.0504	0.6467	1.8700e-003	0.1916	1.1100e-003	0.1927	0.0508	1.0200e-003	0.0518		186.6091	186.6091	4.5200e-003		186.7222

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	0.8738	8.7235	9.8952	0.0152		0.4650	0.4650		0.4289	0.4289	0.0000	1,455.0218	1,455.0218	0.4595		1,466.5091
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8738	8.7235	9.8952	0.0152		0.4650	0.4650		0.4289	0.4289	0.0000	1,455.0218	1,455.0218	0.4595		1,466.5091

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Summer

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0914	0.0504	0.6467	1.8700e-003	0.1916	1.1100e-003	0.1927	0.0508	1.0200e-003	0.0518		186.6091	186.6091	4.5200e-003		186.7222
Total	0.0914	0.0504	0.6467	1.8700e-003	0.1916	1.1100e-003	0.1927	0.0508	1.0200e-003	0.0518		186.6091	186.6091	4.5200e-003		186.7222

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	82.6189					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	82.8378	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Summer

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0609	0.0336	0.4311	1.2500e-003	0.1277	7.4000e-004	0.1285	0.0339	6.8000e-004	0.0346		124.4061	124.4061	3.0100e-003		124.4815
Total	0.0609	0.0336	0.4311	1.2500e-003	0.1277	7.4000e-004	0.1285	0.0339	6.8000e-004	0.0346		124.4061	124.4061	3.0100e-003		124.4815

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	82.6189					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	82.8378	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Summer

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0609	0.0336	0.4311	1.2500e-003	0.1277	7.4000e-004	0.1285	0.0339	6.8000e-004	0.0346		124.4061	124.4061	3.0100e-003		124.4815
Total	0.0609	0.0336	0.4311	1.2500e-003	0.1277	7.4000e-004	0.1285	0.0339	6.8000e-004	0.0346		124.4061	124.4061	3.0100e-003		124.4815

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3651	3.7727	3.5701	0.0178	1.0249	0.0153	1.0402	0.2757	0.0145	0.2902		1,826.7465	1,826.7465	0.1502		1,830.5024
Unmitigated	0.3651	3.7727	3.5701	0.0178	1.0249	0.0153	1.0402	0.2757	0.0145	0.2902		1,826.7465	1,826.7465	0.1502		1,830.5024

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	60.00	60.00	60.00	165,649	165,649
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	79.80	79.80	79.80	308,305	308,305
Total	139.80	139.80	139.80	473,954	473,954

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.487139	0.031901	0.169199	0.121386	0.017033	0.004732	0.033028	0.124746	0.002366	0.001590	0.005154	0.001097	0.000629
Other Non-Asphalt Surfaces	0.487139	0.031901	0.169199	0.121386	0.017033	0.004732	0.033028	0.124746	0.002366	0.001590	0.005154	0.001097	0.000629
Unrefrigerated Warehouse-No Rail	0.487139	0.031901	0.169199	0.121386	0.017033	0.004732	0.033028	0.124746	0.002366	0.001590	0.005154	0.001097	0.000629

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0351	0.3194	0.2683	1.9200e-003		0.0243	0.0243		0.0243	0.0243		383.3038	383.3038	7.3500e-003	7.0300e-003	385.5816
NaturalGas Unmitigated	0.0351	0.3194	0.2683	1.9200e-003		0.0243	0.0243		0.0243	0.0243		383.3038	383.3038	7.3500e-003	7.0300e-003	385.5816

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	286.027	3.0800e-003	0.0280	0.0236	1.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003		33.6503	33.6503	6.4000e-004	6.2000e-004	33.8503
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2972.05	0.0321	0.2914	0.2448	1.7500e-003		0.0221	0.0221		0.0221	0.0221		349.6535	349.6535	6.7000e-003	6.4100e-003	351.7313
Total		0.0351	0.3194	0.2683	1.9200e-003		0.0243	0.0243		0.0243	0.0243		383.3038	383.3038	7.3400e-003	7.0300e-003	385.5816

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.286027	3.0800e-003	0.0280	0.0236	1.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003		33.6503	33.6503	6.4000e-004	6.2000e-004	33.8503
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.97205	0.0321	0.2914	0.2448	1.7500e-003		0.0221	0.0221		0.0221	0.0221		349.6535	349.6535	6.7000e-003	6.4100e-003	351.7313
Total		0.0351	0.3194	0.2683	1.9200e-003		0.0243	0.0243		0.0243	0.0243		383.3038	383.3038	7.3400e-003	7.0300e-003	385.5816

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Summer

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.5664	1.2000e-004	0.0126	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0269	0.0269	7.0000e-005		0.0287
Unmitigated	1.5664	1.2000e-004	0.0126	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0269	0.0269	7.0000e-005		0.0287

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Summer

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	0.0905					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4747					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1800e-003	1.2000e-004	0.0126	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0269	0.0269	7.0000e-005		0.0287
Total	1.5664	1.2000e-004	0.0126	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0269	0.0269	7.0000e-005		0.0287

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	0.0905					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4747					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1800e-003	1.2000e-004	0.0126	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0269	0.0269	7.0000e-005		0.0287
Total	1.5664	1.2000e-004	0.0126	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0269	0.0269	7.0000e-005		0.0287

7.0 Water Detail

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Summer

7.1 Mitigation Measures Water**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

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Winter

Mendota Valley Agricultural Holdings Project v4
Fresno County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.00	1000sqft	0.18	8,000.00	0
Unrefrigerated Warehouse-No Rail	60.00	1000sqft	1.38	60,000.00	0
Other Non-Asphalt Surfaces	55.00	1000sqft	1.26	55,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	45
Climate Zone	3			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Winter

Project Characteristics -

Land Use -

Construction Phase - Estimated construction schedule.

Off-road Equipment - Equipment for the site preparation phase.

Off-road Equipment - Equipment for this phase.

Off-road Equipment - Equipment for this phase.

Off-road Equipment - Equipment for this phase.

Off-road Equipment - Equipment for this phase.

Off-road Equipment -

Grading - Assume total 59-acre site area graded.

Architectural Coating - SJVAPCD Rule 4601 limits VOC for architectural coatings at 50 g/L.

Vehicle Trips - General Office Building (worker buildings) accounts for 60 worker trips/day; Unrefrigerated Warehouse (Head Houses) accounts for 60 worker trips + 20 delivery/shipments per day.

Area Coating - SJVAPCD Rule 4601 limits VOC for architectural coatings at 50 g/L.

Water And Wastewater - General Office Building accounts for 2 AFY indoor uses across worker buildings and head houses. Unrefrigerated warehouse accounts for 150 AFY for outdoor cannabis irrigation.

Construction Off-road Equipment Mitigation - SJVAPCD Rule 8501 requires measures to reduce visible dust emissions by 20%.

Area Mitigation - SJVAPCD Rule 4601 limits VOC for architectural coatings at 50 g/L.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	50
tblAreaCoating	Area_EF_Nonresidential_Interior	150	50
tblAreaCoating	Area_EF_Parking	150	100
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	50

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Winter

tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	150	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	4.00
tblConstructionPhase	NumDays	220.00	50.00
tblConstructionPhase	NumDays	6.00	10.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	3.00	5.00
tblConstructionPhase	PhaseEndDate	1/12/2022	6/30/2021
tblConstructionPhase	PhaseEndDate	12/15/2021	5/27/2021
tblConstructionPhase	PhaseEndDate	1/28/2021	3/18/2021
tblConstructionPhase	PhaseEndDate	2/10/2021	1/21/2021
tblConstructionPhase	PhaseEndDate	12/29/2021	6/24/2021
tblConstructionPhase	PhaseEndDate	2/2/2021	1/7/2021
tblConstructionPhase	PhaseStartDate	12/30/2021	6/25/2021
tblConstructionPhase	PhaseStartDate	2/11/2021	3/19/2021
tblConstructionPhase	PhaseStartDate	1/1/2021	1/22/2021
tblConstructionPhase	PhaseStartDate	2/3/2021	1/8/2021
tblConstructionPhase	PhaseStartDate	12/16/2021	5/28/2021
tblConstructionPhase	PhaseStartDate	1/29/2021	1/1/2021
tblGrading	AcresOfGrading	5.00	59.00
tblGrading	AcresOfGrading	7.50	59.00
tblOffRoadEquipment	HorsePower	158.00	81.00
tblOffRoadEquipment	HorsePower	9.00	231.00
tblOffRoadEquipment	HorsePower	78.00	247.00
tblOffRoadEquipment	HorsePower	247.00	367.00

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Winter

tbloffRoadEquipment	HorsePower	158.00	187.00
tbloffRoadEquipment	LoadFactor	0.38	0.73
tbloffRoadEquipment	LoadFactor	0.56	0.29
tbloffRoadEquipment	LoadFactor	0.50	0.40
tbloffRoadEquipment	LoadFactor	0.40	0.48
tbloffRoadEquipment	LoadFactor	0.38	0.41
tbloffRoadEquipment	OffRoadEquipmentType	Concrete/Industrial Saws	Excavators
tbloffRoadEquipment	OffRoadEquipmentType	Cranes	Cement and Mortar Mixers
tbloffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Trenchers
tbloffRoadEquipment	OffRoadEquipmentType	Scrapers	Rubber Tired Dozers
tbloffRoadEquipment	OffRoadEquipmentType		Excavators
tbloffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tbloffRoadEquipment	PhaseName		Utility Trenching
tbloffRoadEquipment	PhaseName		Utility Trenching
tbloffRoadEquipment	PhaseName		Utility Trenching
tbloffRoadEquipment	PhaseName		Grading

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Winter

tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	2.46	7.50
tblVehicleTrips	ST_TR	1.68	1.33
tblVehicleTrips	SU_TR	1.05	7.50
tblVehicleTrips	SU_TR	1.68	1.33
tblVehicleTrips	WD_TR	11.03	7.50
tblVehicleTrips	WD_TR	1.68	1.33
tblWater	IndoorWaterUseRate	1,421,869.98	9,583.85
tblWater	IndoorWaterUseRate	13,875,000.00	0.00
tblWater	OutdoorWaterUseRate	871,468.70	0.00
tblWater	OutdoorWaterUseRate	0.00	28,300.00

2.0 Emissions Summary

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.5664	1.2000e-004	0.0126	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0269	0.0269	7.0000e-005		0.0287
Energy	0.0351	0.3194	0.2683	1.9200e-003		0.0243	0.0243		0.0243	0.0243		383.3038	383.3038	7.3500e-003	7.0300e-003	385.5816
Mobile	0.2983	3.8565	3.3026	0.0165	1.0249	0.0157	1.0405	0.2757	0.0148	0.2905		1,692.1375	1,692.1375	0.1641		1,696.2410
Total	1.8999	4.1760	3.5835	0.0184	1.0249	0.0400	1.0649	0.2757	0.0392	0.3148		2,075.4682	2,075.4682	0.1716	7.0300e-003	2,081.8513

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.5664	1.2000e-004	0.0126	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0269	0.0269	7.0000e-005		0.0287
Energy	0.0351	0.3194	0.2683	1.9200e-003		0.0243	0.0243		0.0243	0.0243		383.3038	383.3038	7.3500e-003	7.0300e-003	385.5816
Mobile	0.2983	3.8565	3.3026	0.0165	1.0249	0.0157	1.0405	0.2757	0.0148	0.2905		1,692.1375	1,692.1375	0.1641		1,696.2410
Total	1.8999	4.1760	3.5835	0.0184	1.0249	0.0400	1.0649	0.2757	0.0392	0.3148		2,075.4682	2,075.4682	0.1716	7.0300e-003	2,081.8513

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2021	1/7/2021	5	5	
2	Grading	Grading	1/8/2021	1/21/2021	5	10	
3	Utility Trenching	Trenching	1/22/2021	3/18/2021	5	40	Trenching and installation for utilities.
4	Building Construction	Building Construction	3/19/2021	5/27/2021	5	50	
5	Paving	Paving	5/28/2021	6/24/2021	5	20	
6	Architectural Coating	Architectural Coating	6/25/2021	6/30/2021	5	4	

Acres of Grading (Site Preparation Phase): 59

Acres of Grading (Grading Phase): 59

Acres of Paving: 1.26

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 102,000; Non-Residential Outdoor: 34,000; Striped Parking Area: 3,300 (Architectural Coating – sqft)

OffRoad Equipment

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Utility Trenching	Excavators	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cement and Mortar Mixers	1	8.00	231	0.29
Building Construction	Forklifts	1	7.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Utility Trenching	Trenchers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Utility Trenching	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	8.00	367	0.48
Building Construction	Welders	2	8.00	46	0.45
Grading	Excavators	1	8.00	187	0.41
Grading	Plate Compactors	2	6.00	8	0.43

Trips and VMT

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Winter

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
Utility Trenching	5	13.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	51.00	20.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

3.2 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					12.5139	0.0000	12.5139	1.3512	0.0000	1.3512			0.0000			0.0000
Off-Road	2.1462	23.3697	16.3002	0.0247		1.0065	1.0065		0.9260	0.9260		2,393.1504	2,393.1504	0.7740		2,412.5002
Total	2.1462	23.3697	16.3002	0.0247	12.5139	1.0065	13.5204	1.3512	0.9260	2.2772		2,393.1504	2,393.1504	0.7740		2,412.5002

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Winter

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0480	0.0316	0.2814	8.7000e-004	0.1022	5.9000e-004	0.1028	0.0271	5.4000e-004	0.0276		87.1434	87.1434	2.0700e-003		87.1952
Total	0.0480	0.0316	0.2814	8.7000e-004	0.1022	5.9000e-004	0.1028	0.0271	5.4000e-004	0.0276		87.1434	87.1434	2.0700e-003		87.1952

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					5.6313	0.0000	5.6313	0.6080	0.0000	0.6080			0.0000			0.0000
Off-Road	2.1462	23.3697	16.3002	0.0247		1.0065	1.0065		0.9260	0.9260	0.0000	2,393.1504	2,393.1504	0.7740		2,412.5002
Total	2.1462	23.3697	16.3002	0.0247	5.6313	1.0065	6.6378	0.6080	0.9260	1.5340	0.0000	2,393.1504	2,393.1504	0.7740		2,412.5002

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3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0480	0.0316	0.2814	8.7000e-004	0.1022	5.9000e-004	0.1028	0.0271	5.4000e-004	0.0276		87.1434	87.1434	2.0700e-003		87.1952
Total	0.0480	0.0316	0.2814	8.7000e-004	0.1022	5.9000e-004	0.1028	0.0271	5.4000e-004	0.0276		87.1434	87.1434	2.0700e-003		87.1952

3.3 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					12.2790	0.0000	12.2790	3.9858	0.0000	3.9858			0.0000			0.0000
Off-Road	2.2712	24.5558	13.5456	0.0306		1.0989	1.0989		1.0121	1.0121		2,948.5896	2,948.5896	0.9423		2,972.1465
Total	2.2712	24.5558	13.5456	0.0306	12.2790	1.0989	13.3779	3.9858	1.0121	4.9980		2,948.5896	2,948.5896	0.9423		2,972.1465

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3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0601	0.0394	0.3518	1.0900e-003	0.1277	7.4000e-004	0.1285	0.0339	6.8000e-004	0.0346		108.9292	108.9292	2.5900e-003		108.9940
Total	0.0601	0.0394	0.3518	1.0900e-003	0.1277	7.4000e-004	0.1285	0.0339	6.8000e-004	0.0346		108.9292	108.9292	2.5900e-003		108.9940

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					5.5256	0.0000	5.5256	1.7936	0.0000	1.7936			0.0000			0.0000
Off-Road	2.2712	21.8724	13.5456	0.0306		1.0989	1.0989		1.0121	1.0121	0.0000	2,948.5896	2,948.5896	0.9423		2,972.1465
Total	2.2712	21.8724	13.5456	0.0306	5.5256	1.0989	6.6245	1.7936	1.0121	2.8058	0.0000	2,948.5896	2,948.5896	0.9423		2,972.1465

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Winter

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0601	0.0394	0.3518	1.0900e-003	0.1277	7.4000e-004	0.1285	0.0339	6.8000e-004	0.0346		108.9292	108.9292	2.5900e-003		108.9940
Total	0.0601	0.0394	0.3518	1.0900e-003	0.1277	7.4000e-004	0.1285	0.0339	6.8000e-004	0.0346		108.9292	108.9292	2.5900e-003		108.9940

3.4 Utility Trenching - 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	1.4696	16.2566	13.3294	0.0229		0.8023	0.8023		0.7381	0.7381		2,216.2535	2,216.2535	0.7168		2,234.1730
Total	1.4696	16.2566	13.3294	0.0229		0.8023	0.8023		0.7381	0.7381		2,216.2535	2,216.2535	0.7168		2,234.1730

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Winter

3.4 Utility Trenching - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0781	0.0513	0.4573	1.4200e-003	0.1661	9.6000e-004	0.1670	0.0440	8.8000e-004	0.0449		141.6080	141.6080	3.3700e-003		141.6922
Total	0.0781	0.0513	0.4573	1.4200e-003	0.1661	9.6000e-004	0.1670	0.0440	8.8000e-004	0.0449		141.6080	141.6080	3.3700e-003		141.6922

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	1.4696	5.6874	13.3294	0.0229		0.8023	0.8023		0.7381	0.7381	0.0000	2,216.2535	2,216.2535	0.7168		2,234.1730
Total	1.4696	5.6874	13.3294	0.0229		0.8023	0.8023		0.7381	0.7381	0.0000	2,216.2535	2,216.2535	0.7168		2,234.1730

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Winter

3.4 Utility Trenching - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0781	0.0513	0.4573	1.4200e-003	0.1661	9.6000e-004	0.1670	0.0440	8.8000e-004	0.0449		141.6080	141.6080	3.3700e-003		141.6922
Total	0.0781	0.0513	0.4573	1.4200e-003	0.1661	9.6000e-004	0.1670	0.0440	8.8000e-004	0.0449		141.6080	141.6080	3.3700e-003		141.6922

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	1.3568	10.0594	11.5346	0.0177		0.5569	0.5569		0.5376	0.5376		1,618.8671	1,618.8671	0.2737		1,625.7094
Total	1.3568	10.0594	11.5346	0.0177		0.5569	0.5569		0.5376	0.5376		1,618.8671	1,618.8671	0.2737		1,625.7094

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Winter

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0591	2.1586	0.3637	5.1100e-003	0.1226	5.6800e-003	0.1283	0.0353	5.4300e-003	0.0407		535.0603	535.0603	0.0760		536.9613
Worker	0.3063	0.2012	1.7940	5.5700e-003	0.6514	3.7600e-003	0.6552	0.1728	3.4700e-003	0.1762		555.5392	555.5392	0.0132		555.8692
Total	0.3654	2.3597	2.1578	0.0107	0.7740	9.4400e-003	0.7834	0.2081	8.9000e-003	0.2170		1,090.5995	1,090.5995	0.0892		1,092.8305

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	1.3568	10.0594	11.5346	0.0177		0.5569	0.5569		0.5376	0.5376	0.0000	1,618.8671	1,618.8671	0.2737		1,625.7094
Total	1.3568	10.0594	11.5346	0.0177		0.5569	0.5569		0.5376	0.5376	0.0000	1,618.8671	1,618.8671	0.2737		1,625.7094

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Winter

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0591	2.1586	0.3637	5.1100e-003	0.1226	5.6800e-003	0.1283	0.0353	5.4300e-003	0.0407		535.0603	535.0603	0.0760		536.9613
Worker	0.3063	0.2012	1.7940	5.5700e-003	0.6514	3.7600e-003	0.6552	0.1728	3.4700e-003	0.1762		555.5392	555.5392	0.0132		555.8692
Total	0.3654	2.3597	2.1578	0.0107	0.7740	9.4400e-003	0.7834	0.2081	8.9000e-003	0.2170		1,090.5995	1,090.5995	0.0892		1,092.8305

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8738	8.7235	9.8952	0.0152		0.4650	0.4650		0.4289	0.4289		1,455.0218	1,455.0218	0.4595		1,466.5091
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8738	8.7235	9.8952	0.0152		0.4650	0.4650		0.4289	0.4289		1,455.0218	1,455.0218	0.4595		1,466.5091

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Winter

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0901	0.0592	0.5277	1.6400e-003	0.1916	1.1100e-003	0.1927	0.0508	1.0200e-003	0.0518		163.3939	163.3939	3.8800e-003		163.4909
Total	0.0901	0.0592	0.5277	1.6400e-003	0.1916	1.1100e-003	0.1927	0.0508	1.0200e-003	0.0518		163.3939	163.3939	3.8800e-003		163.4909

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	0.8738	8.7235	9.8952	0.0152		0.4650	0.4650		0.4289	0.4289	0.0000	1,455.0218	1,455.0218	0.4595		1,466.5091
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8738	8.7235	9.8952	0.0152		0.4650	0.4650		0.4289	0.4289	0.0000	1,455.0218	1,455.0218	0.4595		1,466.5091

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Winter

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0901	0.0592	0.5277	1.6400e-003	0.1916	1.1100e-003	0.1927	0.0508	1.0200e-003	0.0518		163.3939	163.3939	3.8800e-003		163.4909
Total	0.0901	0.0592	0.5277	1.6400e-003	0.1916	1.1100e-003	0.1927	0.0508	1.0200e-003	0.0518		163.3939	163.3939	3.8800e-003		163.4909

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	82.6189					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	82.8378	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Winter

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0601	0.0394	0.3518	1.0900e-003	0.1277	7.4000e-004	0.1285	0.0339	6.8000e-004	0.0346		108.9292	108.9292	2.5900e-003		108.9940
Total	0.0601	0.0394	0.3518	1.0900e-003	0.1277	7.4000e-004	0.1285	0.0339	6.8000e-004	0.0346		108.9292	108.9292	2.5900e-003		108.9940

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	82.6189					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	82.8378	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Winter

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0601	0.0394	0.3518	1.0900e-003	0.1277	7.4000e-004	0.1285	0.0339	6.8000e-004	0.0346		108.9292	108.9292	2.5900e-003		108.9940
Total	0.0601	0.0394	0.3518	1.0900e-003	0.1277	7.4000e-004	0.1285	0.0339	6.8000e-004	0.0346		108.9292	108.9292	2.5900e-003		108.9940

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Mendota Valley Agricultural Holdings Project v4 - Fresno County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2983	3.8565	3.3026	0.0165	1.0249	0.0157	1.0405	0.2757	0.0148	0.2905		1,692.1375	1,692.1375	0.1641		1,696.2410
Unmitigated	0.2983	3.8565	3.3026	0.0165	1.0249	0.0157	1.0405	0.2757	0.0148	0.2905		1,692.1375	1,692.1375	0.1641		1,696.2410

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	60.00	60.00	60.00	165,649	165,649
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	79.80	79.80	79.80	308,305	308,305
Total	139.80	139.80	139.80	473,954	473,954

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.487139	0.031901	0.169199	0.121386	0.017033	0.004732	0.033028	0.124746	0.002366	0.001590	0.005154	0.001097	0.000629
Other Non-Asphalt Surfaces	0.487139	0.031901	0.169199	0.121386	0.017033	0.004732	0.033028	0.124746	0.002366	0.001590	0.005154	0.001097	0.000629
Unrefrigerated Warehouse-No Rail	0.487139	0.031901	0.169199	0.121386	0.017033	0.004732	0.033028	0.124746	0.002366	0.001590	0.005154	0.001097	0.000629

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0351	0.3194	0.2683	1.9200e-003		0.0243	0.0243		0.0243	0.0243		383.3038	383.3038	7.3500e-003	7.0300e-003	385.5816
NaturalGas Unmitigated	0.0351	0.3194	0.2683	1.9200e-003		0.0243	0.0243		0.0243	0.0243		383.3038	383.3038	7.3500e-003	7.0300e-003	385.5816

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	286.027	3.0800e-003	0.0280	0.0236	1.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003		33.6503	33.6503	6.4000e-004	6.2000e-004	33.8503
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2972.05	0.0321	0.2914	0.2448	1.7500e-003		0.0221	0.0221		0.0221	0.0221		349.6535	349.6535	6.7000e-003	6.4100e-003	351.7313
Total		0.0351	0.3194	0.2683	1.9200e-003		0.0243	0.0243		0.0243	0.0243		383.3038	383.3038	7.3400e-003	7.0300e-003	385.5816

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.286027	3.0800e-003	0.0280	0.0236	1.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003		33.6503	33.6503	6.4000e-004	6.2000e-004	33.8503
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.97205	0.0321	0.2914	0.2448	1.7500e-003		0.0221	0.0221		0.0221	0.0221		349.6535	349.6535	6.7000e-003	6.4100e-003	351.7313
Total		0.0351	0.3194	0.2683	1.9200e-003		0.0243	0.0243		0.0243	0.0243		383.3038	383.3038	7.3400e-003	7.0300e-003	385.5816

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6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.5664	1.2000e-004	0.0126	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0269	0.0269	7.0000e-005		0.0287
Unmitigated	1.5664	1.2000e-004	0.0126	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0269	0.0269	7.0000e-005		0.0287

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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	0.0905					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4747					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1800e-003	1.2000e-004	0.0126	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0269	0.0269	7.0000e-005		0.0287
Total	1.5664	1.2000e-004	0.0126	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0269	0.0269	7.0000e-005		0.0287

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	0.0905					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4747					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1800e-003	1.2000e-004	0.0126	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0269	0.0269	7.0000e-005		0.0287
Total	1.5664	1.2000e-004	0.0126	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0269	0.0269	7.0000e-005		0.0287

7.0 Water Detail

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7.1 Mitigation Measures Water**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