

Appendix A

Air Quality, GHG, and Energy Data

Oasis Farm - Solano-San Francisco County, Winter

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

Oasis Farm

Solano-San Francisco County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	138.90	1000sqft	3.19	138,900.00	0
Parking Lot	75.00	1000sqft	1.72	75,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	56
Climate Zone	4			Operational Year	2022
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	186	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - adjusted per RPS targets
- Land Use - Project site per 11/21 site plan
- Construction Phase - anticipated construction schedule per applicant provided data
- Trips and VMT -
- Demolition - no demolition
- Grading - site balanced
- Vehicle Trips - anticipated trip generation per traffic data provided
- Energy Use - estimated electricity usage per applicant
- Water And Wastewater - estimated water use per applicant

Oasis Farm - Solano-San Francisco County, Winter

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

Solid Waste - estimated waste per applicant

Construction Off-road Equipment Mitigation - Basic dust control measures

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - emergency generator

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	42.00
tblConstructionPhase	NumDays	230.00	72.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.14	0.00
tblEnergyUse	NT24E	1.07	68.93
tblEnergyUse	T24E	0.29	0.00
tblProjectCharacteristics	CO2IntensityFactor	203.98	186
tblSolidWaste	SolidWasteGenerationRate	130.57	91.25
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	750.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	8.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	1.74	1.05
tblVehicleTrips	SU_TR	1.74	1.05
tblVehicleTrips	WD_TR	1.74	1.05
tblWater	IndoorWaterUseRate	32,120,625.00	37,839.00

2.0 Emissions Summary

Oasis Farm - Solano-San Francisco County, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.4065	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0468	0.0468	1.2000e-004		0.0499
Energy	0.0141	0.1283	0.1078	7.7000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003		154.0100	154.0100	2.9500e-003	2.8200e-003	154.9252
Mobile	0.4796	0.7549	4.8977	9.1100e-003	0.8976	8.9200e-003	0.9065	0.2392	8.3800e-003	0.2476		931.6276	931.6276	0.0660	0.0509	948.4563
Stationary	52.7883	4.0658	137.4857	0.0184		0.2913	0.2913		0.2913	0.2913		3,372.6567	3,372.6567	7.0519		3,548.9547
Total	56.6885	4.9493	142.5130	0.0283	0.8976	0.3100	1.2076	0.2392	0.3095	0.5487		4,458.3411	4,458.3411	7.1210	0.0538	4,652.3861

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	3.4065	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0468	0.0468	1.2000e-004		0.0499
Energy	0.0141	0.1283	0.1078	7.7000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003		154.0100	154.0100	2.9500e-003	2.8200e-003	154.9252

Oasis Farm - Solano-San Francisco County, Winter

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

Mobile	0.4796	0.7549	4.8977	9.1100e-003	0.8976	8.9200e-003	0.9065	0.2392	8.3800e-003	0.2476		931.6276	931.6276	0.0660	0.0509	948.4563
Stationary	52.7883	4.0658	137.4857	0.0184		0.2913	0.2913		0.2913	0.2913		3,372.6567	3,372.6567	7.0519		3,548.9547
Total	56.6885	4.9493	142.5130	0.0283	0.8976	0.3100	1.2076	0.2392	0.3095	0.5487		4,458.3411	4,458.3411	7.1210	0.0538	4,652.3861

	ROG	NOx	CO	SO2	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	1/1/2022	1/7/2022	5	5	
2	Grading	Grading	1/8/2022	1/19/2022	5	8	
3	Building Construction	Building Construction	1/20/2022	4/29/2022	5	72	
4	Paving	Paving	5/1/2022	5/25/2022	5	18	
5	Architectural Coating	Architectural Coating	4/1/2022	5/30/2022	5	42	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 1.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 208,350; Non-Residential Outdoor: 69,450; Striped Parking Area: 4,500

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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Oasis Farm - Solano-San Francisco County, Winter

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

Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	90.00	35.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Oasis Farm - Solano-San Francisco County, Winter

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

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	19.6570	1.6126	21.2696	10.1025	1.4836	11.5860		3,686.0619	3,686.0619	1.1922		3,715.8655

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					

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0571	0.0432	0.4490	1.2800e-003	0.1479	7.9000e-004	0.1487	0.0392	7.2000e-004	0.0400		130.2764	130.2764	4.5900e-003	4.1700e-003	131.6350
Total	0.0571	0.0432	0.4490	1.2800e-003	0.1479	7.9000e-004	0.1487	0.0392	7.2000e-004	0.0400		130.2764	130.2764	4.5900e-003	4.1700e-003	131.6350

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					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	8.4034	1.6126	10.0159	4.3188	1.4836	5.8024	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

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
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Oasis Farm - Solano-San Francisco County, Winter

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

Category	lb/day										lb/day					
	Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0571	0.0432	0.4490	1.2800e-003	0.1402	7.9000e-004	0.1409	0.0373	7.2000e-004	0.0381		130.2764	130.2764	4.5900e-003	4.1700e-003	131.6350
Total	0.0571	0.0432	0.4490	1.2800e-003	0.1402	7.9000e-004	0.1409	0.0373	7.2000e-004	0.0381		130.2764	130.2764	4.5900e-003	4.1700e-003	131.6350

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903		2,872.0464	2,872.0464	0.9289		2,895.2684

Unmitigated Construction Off-Site

Oasis Farm - Solano-San Francisco County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0476	0.0360	0.3741	1.0700e-003	0.1232	6.6000e-004	0.1239	0.0327	6.0000e-004	0.0333			108.5636	108.5636	3.8200e-003	3.4800e-003	109.6958
Total	0.0476	0.0360	0.3741	1.0700e-003	0.1232	6.6000e-004	0.1239	0.0327	6.0000e-004	0.0333			108.5636	108.5636	3.8200e-003	3.4800e-003	109.6958

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0278	0.0000	3.0278	1.4641	0.0000	1.4641			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	1.9486	20.8551	15.2727	0.0297	3.0278	0.9409	3.9687	1.4641	0.8656	2.3297	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684

Mitigated Construction Off-Site

Oasis Farm - Solano-San Francisco County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0476	0.0360	0.3741	1.0700e-003	0.1168	6.6000e-004	0.1175	0.0311	6.0000e-004	0.0317		108.5636	108.5636	3.8200e-003	3.4800e-003	109.6958
Total	0.0476	0.0360	0.3741	1.0700e-003	0.1168	6.6000e-004	0.1175	0.0311	6.0000e-004	0.0317		108.5636	108.5636	3.8200e-003	3.4800e-003	109.6958

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

Unmitigated Construction Off-Site

Oasis Farm - Solano-San Francisco County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0848	2.0016	0.6592	7.5700e-003	0.2373	0.0229	0.2602	0.0683	0.0219	0.0902		798.7611	798.7611	6.0700e-003	0.1145	833.0356
Worker	0.2857	0.2161	2.2448	6.4000e-003	0.7393	3.9300e-003	0.7433	0.1961	3.6200e-003	0.1997		651.3817	651.3817	0.0229	0.0209	658.1749
Total	0.3705	2.2177	2.9040	0.0140	0.9766	0.0268	1.0034	0.2644	0.0255	0.2899		1,450.1429	1,450.1429	0.0290	0.1354	1,491.2105

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Mitigated Construction Off-Site

Oasis Farm - Solano-San Francisco County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0848	2.0016	0.6592	7.5700e-003	0.2271	0.0229	0.2500	0.0658	0.0219	0.0877		798.7611	798.7611	6.0700e-003	0.1145	833.0356
Worker	0.2857	0.2161	2.2448	6.4000e-003	0.7008	3.9300e-003	0.7047	0.1866	3.6200e-003	0.1903		651.3817	651.3817	0.0229	0.0209	658.1749
Total	0.3705	2.2177	2.9040	0.0140	0.9279	0.0268	0.9547	0.2525	0.0255	0.2780		1,450.1429	1,450.1429	0.0290	0.1354	1,491.2105

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9765	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504		1,805.1297	1,805.1297	0.5672		1,819.3091
Paving	0.2504					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2269	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504		1,805.1297	1,805.1297	0.5672		1,819.3091

Oasis Farm - Solano-San Francisco County, Winter

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0635	0.0480	0.4989	1.4200e-003	0.1643	8.7000e-004	0.1652	0.0436	8.0000e-004	0.0444		144.7515	144.7515	5.1000e-003	4.6400e-003	146.2611
Total	0.0635	0.0480	0.4989	1.4200e-003	0.1643	8.7000e-004	0.1652	0.0436	8.0000e-004	0.0444		144.7515	144.7515	5.1000e-003	4.6400e-003	146.2611

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	0.9765	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504	0.0000	1,805.1297	1,805.1297	0.5672		1,819.3091
Paving	0.2504					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2269	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504	0.0000	1,805.1297	1,805.1297	0.5672		1,819.3091

Oasis Farm - Solano-San Francisco County, Winter

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0635	0.0480	0.4989	1.4200e-003	0.1557	8.7000e-004	0.1566	0.0415	8.0000e-004	0.0423		144.7515	144.7515	5.1000e-003	4.6400e-003	146.2611
Total	0.0635	0.0480	0.4989	1.4200e-003	0.1557	8.7000e-004	0.1566	0.0415	8.0000e-004	0.0423		144.7515	144.7515	5.1000e-003	4.6400e-003	146.2611

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	35.2343					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	35.4388	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Oasis Farm - Solano-San Francisco County, Winter

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0571	0.0432	0.4490	1.2800e-003	0.1479	7.9000e-004	0.1487	0.0392	7.2000e-004	0.0400		130.2764	130.2764	4.5900e-003	4.1700e-003	131.6350
Total	0.0571	0.0432	0.4490	1.2800e-003	0.1479	7.9000e-004	0.1487	0.0392	7.2000e-004	0.0400		130.2764	130.2764	4.5900e-003	4.1700e-003	131.6350

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	35.2343					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	35.4388	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Oasis Farm - Solano-San Francisco County, Winter

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0571	0.0432	0.4490	1.2800e-003	0.1402	7.9000e-004	0.1409	0.0373	7.2000e-004	0.0381		130.2764	130.2764	4.5900e-003	4.1700e-003	131.6350
Total	0.0571	0.0432	0.4490	1.2800e-003	0.1402	7.9000e-004	0.1409	0.0373	7.2000e-004	0.0381		130.2764	130.2764	4.5900e-003	4.1700e-003	131.6350

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Oasis Farm - Solano-San Francisco County, Winter

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

Mitigated	0.4796	0.7549	4.8977	9.1100e-003	0.8976	8.9200e-003	0.9065	0.2392	8.3800e-003	0.2476		931.6276	931.6276	0.0660	0.0509	948.4563
Unmitigated	0.4796	0.7549	4.8977	9.1100e-003	0.8976	8.9200e-003	0.9065	0.2392	8.3800e-003	0.2476		931.6276	931.6276	0.0660	0.0509	948.4563

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	145.85	145.85	145.85	425,796	425,796
Total	145.85	145.85	145.85	425,796	425,796

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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.549077	0.053956	0.166427	0.135047	0.028441	0.006844	0.008046	0.014808	0.000985	0.000410	0.030126	0.000789	0.0050
Unrefrigerated Warehouse-No Rail	0.549077	0.053956	0.166427	0.135047	0.028441	0.006844	0.008046	0.014808	0.000985	0.000410	0.030126	0.000789	0.0050

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Oasis Farm - Solano-San Francisco County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0141	0.1283	0.1078	7.7000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003		154.0100	154.0100	2.9500e-003	2.8200e-003	154.9252
NaturalGas Unmitigated	0.0141	0.1283	0.1078	7.7000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003		154.0100	154.0100	2.9500e-003	2.8200e-003	154.9252

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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1309.08	0.0141	0.1283	0.1078	7.7000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003		154.0100	154.0100	2.9500e-003	2.8200e-003	154.9252
Total		0.0141	0.1283	0.1078	7.7000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003		154.0100	154.0100	2.9500e-003	2.8200e-003	154.9252

Mitigated

Oasis Farm - Solano-San Francisco County, Winter

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

	Natural Gas 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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.30908	0.0141	0.1283	0.1078	7.7000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003		154.0100	154.0100	2.9500e-003	2.8200e-003	154.9252
Total		0.0141	0.1283	0.1078	7.7000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003		154.0100	154.0100	2.9500e-003	2.8200e-003	154.9252

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.4065	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0468	0.0468	1.2000e-004		0.0499
Unmitigated	3.4065	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0468	0.0468	1.2000e-004		0.0499

6.2 Area by SubCategory

Oasis Farm - Solano-San Francisco County, Winter

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

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	0.4054					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.9990					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0300e-003	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0468	0.0468	1.2000e-004		0.0499
Total	3.4065	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0468	0.0468	1.2000e-004		0.0499

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	0.4054					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.9990					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0300e-003	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0468	0.0468	1.2000e-004		0.0499
Total	3.4065	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0468	0.0468	1.2000e-004		0.0499

Oasis Farm - Solano-San Francisco County, Winter

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

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	8	50	750	0.73	CNG

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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10.1 Stationary Sources

Unmitigated/Mitigated

Oasis Farm - Solano-San Francisco County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator, GNC	52.7883	4.0658	137.4857	0.0184		0.2913	0.2913		0.2913	0.2913		3,372.6567	3,372.6567	7.0519		3,548.9547
Total	52.7883	4.0658	137.4857	0.0184		0.2913	0.2913		0.2913	0.2913		3,372.6567	3,372.6567	7.0519		3,548.9547

11.0 Vegetation

Oasis Farm - Solano-San Francisco County, Summer

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

Oasis Farm

Solano-San Francisco County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	138.90	1000sqft	3.19	138,900.00	0
Parking Lot	75.00	1000sqft	1.72	75,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	56
Climate Zone	4			Operational Year	2022
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	186	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - adjusted per RPS targets
- Land Use - Project site per 11/21 site plan
- Construction Phase - anticipated construction schedule per applicant provided data
- Trips and VMT -
- Demolition - no demolition
- Grading - site balanced
- Vehicle Trips - anticipated trip generation per traffic data provided
- Energy Use - estimated electricity usage per applicant
- Water And Wastewater - estimated water use per applicant
- Solid Waste - estimated waste per applicant

Oasis Farm - Solano-San Francisco County, Summer

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

Construction Off-road Equipment Mitigation - Basic dust control measures

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - emergency generator

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	42.00
tblConstructionPhase	NumDays	230.00	72.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.14	0.00
tblEnergyUse	NT24E	1.07	68.93
tblEnergyUse	T24E	0.29	0.00
tblProjectCharacteristics	CO2IntensityFactor	203.98	186
tblSolidWaste	SolidWasteGenerationRate	130.57	91.25
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	750.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	8.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	1.74	1.05
tblVehicleTrips	SU_TR	1.74	1.05
tblVehicleTrips	WD_TR	1.74	1.05
tblWater	IndoorWaterUseRate	32,120,625.00	37,839.00

2.0 Emissions Summary

Oasis Farm - Solano-San Francisco County, Summer

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

2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.4065	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0468	0.0468	1.2000e-004		0.0499
Energy	0.0141	0.1283	0.1078	7.7000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003		154.0100	154.0100	2.9500e-003	2.8200e-003	154.9252
Mobile	0.5377	0.6540	4.6171	9.7300e-003	0.8976	8.9100e-003	0.9065	0.2392	8.3700e-003	0.2476		994.2721	994.2721	0.0576	0.0463	1,009.5089
Stationary	52.7883	4.0658	137.4857	0.0184		0.2913	0.2913		0.2913	0.2913		3,372.6567	3,372.6567	7.0519		3,548.9547
Total	56.7466	4.8484	142.2324	0.0289	0.8976	0.3100	1.2076	0.2392	0.3095	0.5487		4,520.9856	4,520.9856	7.1126	0.0491	4,713.4387

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	3.4065	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0468	0.0468	1.2000e-004		0.0499
Energy	0.0141	0.1283	0.1078	7.7000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003		154.0100	154.0100	2.9500e-003	2.8200e-003	154.9252
Mobile	0.5377	0.6540	4.6171	9.7300e-003	0.8976	8.9100e-003	0.9065	0.2392	8.3700e-003	0.2476		994.2721	994.2721	0.0576	0.0463	1,009.5089

Oasis Farm - Solano-San Francisco County, Summer

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

Stationary	52.7883	4.0658	137.4857	0.0184		0.2913	0.2913		0.2913	0.2913		3,372.6567	3,372.6567	7.0519		3,548.9547
Total	56.7466	4.8484	142.2324	0.0289	0.8976	0.3100	1.2076	0.2392	0.3095	0.5487		4,520.9856	4,520.9856	7.1126	0.0491	4,713.4387

	ROG	NOx	CO	SO2	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	1/1/2022	1/7/2022	5	5	
2	Grading	Grading	1/8/2022	1/19/2022	5	8	
3	Building Construction	Building Construction	1/20/2022	4/29/2022	5	72	
4	Paving	Paving	5/1/2022	5/25/2022	5	18	
5	Architectural Coating	Architectural Coating	4/1/2022	5/30/2022	5	42	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 1.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 208,350; Non-Residential Outdoor: 69,450; Striped Parking Area: 4,500

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Oasis Farm - Solano-San Francisco County, Summer

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

Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	90.00	35.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Oasis Farm - Solano-San Francisco County, Summer

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

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	19.6570	1.6126	21.2696	10.1025	1.4836	11.5860		3,686.0619	3,686.0619	1.1922		3,715.8655

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0588	0.0343	0.4752	1.4000e-003	0.1479	7.9000e-004	0.1487	0.0392	7.2000e-004	0.0400		142.0396	142.0396	3.9800e-003	3.5700e-003	143.2038

Oasis Farm - Solano-San Francisco County, Summer

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

Total	0.0588	0.0343	0.4752	1.4000e-003	0.1479	7.9000e-004	0.1487	0.0392	7.2000e-004	0.0400		142.0396	142.0396	3.9800e-003	3.5700e-003	143.2038
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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					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	8.4034	1.6126	10.0159	4.3188	1.4836	5.8024	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0588	0.0343	0.4752	1.4000e-003	0.1402	7.9000e-004	0.1409	0.0373	7.2000e-004	0.0381		142.0396	142.0396	3.9800e-003	3.5700e-003	143.2038

Oasis Farm - Solano-San Francisco County, Summer

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

Total	0.0588	0.0343	0.4752	1.4000e-003	0.1402	7.9000e-004	0.1409	0.0373	7.2000e-004	0.0381		142.0396	142.0396	3.9800e-003	3.5700e-003	143.2038
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3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903		2,872.0464	2,872.0464	0.9289		2,895.2684

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0490	0.0286	0.3960	1.1600e-003	0.1232	6.6000e-004	0.1239	0.0327	6.0000e-004	0.0333		118.3663	118.3663	3.3200e-003	2.9800e-003	119.3365

Oasis Farm - Solano-San Francisco County, Summer

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

Total	0.0490	0.0286	0.3960	1.1600e-003	0.1232	6.6000e-004	0.1239	0.0327	6.0000e-004	0.0333		118.3663	118.3663	3.3200e-003	2.9800e-003	119.3365
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0278	0.0000	3.0278	1.4641	0.0000	1.4641			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	1.9486	20.8551	15.2727	0.0297	3.0278	0.9409	3.9687	1.4641	0.8656	2.3297	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0490	0.0286	0.3960	1.1600e-003	0.1168	6.6000e-004	0.1175	0.0311	6.0000e-004	0.0317		118.3663	118.3663	3.3200e-003	2.9800e-003	119.3365

Oasis Farm - Solano-San Francisco County, Summer

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

Total	0.0490	0.0286	0.3960	1.1600e-003	0.1168	6.6000e-004	0.1175	0.0311	6.0000e-004	0.0317		118.3663	118.3663	3.3200e-003	2.9800e-003	119.3365
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3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0863	1.8751	0.6374	7.5600e-003	0.2373	0.0228	0.2601	0.0683	0.0218	0.0902		798.0725	798.0725	6.1800e-003	0.1142	832.2486
Worker	0.2938	0.1715	2.3760	6.9800e-003	0.7393	3.9300e-003	0.7433	0.1961	3.6200e-003	0.1997		710.1978	710.1978	0.0199	0.0179	716.0188

Oasis Farm - Solano-San Francisco County, Summer

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

Total	0.3801	2.0466	3.0135	0.0145	0.9766	0.0268	1.0034	0.2644	0.0255	0.2899		1,508.2702	1,508.2702	0.0261	0.1320	1,548.2674
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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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0863	1.8751	0.6374	7.5600e-003	0.2271	0.0228	0.2500	0.0658	0.0218	0.0877		798.0725	798.0725	6.1800e-003	0.1142	832.2486
Worker	0.2938	0.1715	2.3760	6.9800e-003	0.7008	3.9300e-003	0.7047	0.1866	3.6200e-003	0.1903		710.1978	710.1978	0.0199	0.0179	716.0188

Oasis Farm - Solano-San Francisco County, Summer

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

Total	0.3801	2.0466	3.0135	0.0145	0.9279	0.0268	0.9547	0.2525	0.0255	0.2779		1,508.2702	1,508.2702	0.0261	0.1320	1,548.2674
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3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9765	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504		1,805.1297	1,805.1297	0.5672		1,819.3091
Paving	0.2504					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2269	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504		1,805.1297	1,805.1297	0.5672		1,819.3091

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0653	0.0381	0.5280	1.5500e-003	0.1643	8.7000e-004	0.1652	0.0436	8.0000e-004	0.0444		157.8217	157.8217	4.4200e-003	3.9700e-003	159.1153

Oasis Farm - Solano-San Francisco County, Summer

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

Total	0.0653	0.0381	0.5280	1.5500e-003	0.1643	8.7000e-004	0.1652	0.0436	8.0000e-004	0.0444		157.8217	157.8217	4.4200e-003	3.9700e-003	159.1153
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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	0.9765	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504	0.0000	1,805.1297	1,805.1297	0.5672		1,819.3091
Paving	0.2504					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2269	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504	0.0000	1,805.1297	1,805.1297	0.5672		1,819.3091

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0653	0.0381	0.5280	1.5500e-003	0.1557	8.7000e-004	0.1566	0.0415	8.0000e-004	0.0423		157.8217	157.8217	4.4200e-003	3.9700e-003	159.1153

Oasis Farm - Solano-San Francisco County, Summer

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

Total	0.0653	0.0381	0.5280	1.5500e-003	0.1557	8.7000e-004	0.1566	0.0415	8.0000e-004	0.0423		157.8217	157.8217	4.4200e-003	3.9700e-003	159.1153
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3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	35.2343					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	35.4388	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0588	0.0343	0.4752	1.4000e-003	0.1479	7.9000e-004	0.1487	0.0392	7.2000e-004	0.0400		142.0396	142.0396	3.9800e-003	3.5700e-003	143.2038

Oasis Farm - Solano-San Francisco County, Summer

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

Total	0.0588	0.0343	0.4752	1.4000e-003	0.1479	7.9000e-004	0.1487	0.0392	7.2000e-004	0.0400		142.0396	142.0396	3.9800e-003	3.5700e-003	143.2038
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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	35.2343					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	35.4388	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0588	0.0343	0.4752	1.4000e-003	0.1402	7.9000e-004	0.1409	0.0373	7.2000e-004	0.0381		142.0396	142.0396	3.9800e-003	3.5700e-003	143.2038

Oasis Farm - Solano-San Francisco County, Summer

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

Total	0.0588	0.0343	0.4752	1.4000e-003	0.1402	7.9000e-004	0.1409	0.0373	7.2000e-004	0.0381		142.0396	142.0396	3.9800e-003	3.5700e-003	143.2038
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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5377	0.6540	4.6171	9.7300e-003	0.8976	8.9100e-003	0.9065	0.2392	8.3700e-003	0.2476		994.2721	994.2721	0.0576	0.0463	1,009.5089
Unmitigated	0.5377	0.6540	4.6171	9.7300e-003	0.8976	8.9100e-003	0.9065	0.2392	8.3700e-003	0.2476		994.2721	994.2721	0.0576	0.0463	1,009.5089

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	145.85	145.85	145.85	425,796	425,796
Total	145.85	145.85	145.85	425,796	425,796

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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

Oasis Farm - Solano-San Francisco County, Summer

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

Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3
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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.549077	0.053956	0.166427	0.135047	0.028441	0.006844	0.008046	0.014808	0.000985	0.000410	0.030126	0.000789	0.005
Unrefrigerated Warehouse-No Rail	0.549077	0.053956	0.166427	0.135047	0.028441	0.006844	0.008046	0.014808	0.000985	0.000410	0.030126	0.000789	0.005

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	0.0141	0.1283	0.1078	7.7000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003		154.0100	154.0100	2.9500e-003	2.8200e-003	154.9252
NaturalGas Unmitigated	0.0141	0.1283	0.1078	7.7000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003		154.0100	154.0100	2.9500e-003	2.8200e-003	154.9252

5.2 Energy by Land Use - NaturalGas
Unmitigated

Oasis Farm - Solano-San Francisco County, Summer

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

	Natural Gas 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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1309.08	0.0141	0.1283	0.1078	7.7000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003		154.0100	154.0100	2.9500e-003	2.8200e-003	154.9252
Total		0.0141	0.1283	0.1078	7.7000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003		154.0100	154.0100	2.9500e-003	2.8200e-003	154.9252

Mitigated

	Natural Gas 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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.30908	0.0141	0.1283	0.1078	7.7000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003		154.0100	154.0100	2.9500e-003	2.8200e-003	154.9252
Total		0.0141	0.1283	0.1078	7.7000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003		154.0100	154.0100	2.9500e-003	2.8200e-003	154.9252

6.0 Area Detail

6.1 Mitigation Measures Area

Oasis Farm - Solano-San Francisco County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.4065	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0468	0.0468	1.2000e-004		0.0499
Unmitigated	3.4065	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0468	0.0468	1.2000e-004		0.0499

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	0.4054					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.9990					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0300e-003	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0468	0.0468	1.2000e-004		0.0499
Total	3.4065	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0468	0.0468	1.2000e-004		0.0499

Oasis Farm - Solano-San Francisco County, Summer

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

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	0.4054					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.9990					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0300e-003	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0468	0.0468	1.2000e-004		0.0499
Total	3.4065	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0468	0.0468	1.2000e-004		0.0499

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Oasis Farm - Solano-San Francisco County, Summer

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

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	8	50	750	0.73	CNG

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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10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator, CNG	52.7883	4.0658	137.4857	0.0184		0.2913	0.2913		0.2913	0.2913		3,372.6567	3,372.6567	7.0519		3,548.9547
Total	52.7883	4.0658	137.4857	0.0184		0.2913	0.2913		0.2913	0.2913		3,372.6567	3,372.6567	7.0519		3,548.9547

11.0 Vegetation

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

Oasis Farm

Solano-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	138.90	1000sqft	3.19	138,900.00	0
Parking Lot	75.00	1000sqft	1.72	75,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	56
Climate Zone	4			Operational Year	2022
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	186	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - adjusted per RPS targets
- Land Use - Project site per 11/21 site plan
- Construction Phase - anticipated construction schedule per applicant provided data
- Trips and VMT -
- Demolition - no demolition
- Grading - site balanced
- Vehicle Trips - anticipated trip generation per traffic data provided
- Energy Use - estimated electricity usage per applicant
- Water And Wastewater - estimated water use per applicant
- Solid Waste - estimated waste per applicant

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

Construction Off-road Equipment Mitigation - Basic dust control measures

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - emergency generator

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	42.00
tblConstructionPhase	NumDays	230.00	72.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.14	0.00
tblEnergyUse	NT24E	1.07	68.93
tblEnergyUse	T24E	0.29	0.00
tblProjectCharacteristics	CO2IntensityFactor	203.98	186
tblSolidWaste	SolidWasteGenerationRate	130.57	91.25
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	750.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	8.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	1.74	1.05
tblVehicleTrips	SU_TR	1.74	1.05
tblVehicleTrips	WD_TR	1.74	1.05
tblWater	IndoorWaterUseRate	32,120,625.00	37,839.00

2.0 Emissions Summary

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.8471	0.9224	0.9642	1.9700e-003	0.1168	0.0440	0.1608	0.0496	0.0413	0.0909	0.0000	174.3879	174.3879	0.0321	4.4900e-003	176.5287
Maximum	0.8471	0.9224	0.9642	1.9700e-003	0.1168	0.0440	0.1608	0.0496	0.0413	0.0909	0.0000	174.3879	174.3879	0.0321	4.4900e-003	176.5287

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.8471	0.9224	0.9642	1.9700e-003	0.0705	0.0440	0.1145	0.0268	0.0413	0.0681	0.0000	174.3877	174.3877	0.0321	4.4900e-003	176.5285
Maximum	0.8471	0.9224	0.9642	1.9700e-003	0.0705	0.0440	0.1145	0.0268	0.0413	0.0681	0.0000	174.3877	174.3877	0.0321	4.4900e-003	176.5285

	ROG	NOx	CO	SO2	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	39.66	0.00	28.80	45.93	0.00	25.07	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)

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

1	1-1-2022	3-31-2022	0.6938	0.6938
2	4-1-2022	6-30-2022	1.0930	1.0930
		Highest	1.0930	1.0930

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	0.6215	2.0000e-005	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8200e-003	3.8200e-003	1.0000e-005	0.0000	4.0700e-003
Energy	2.5800e-003	0.0234	0.0197	1.4000e-004		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	833.2709	833.2709	0.1438	0.0178	842.1819
Mobile	0.0873	0.1290	0.8205	1.6700e-003	0.1580	1.6200e-003	0.1596	0.0422	1.5200e-003	0.0437	0.0000	155.2820	155.2820	0.0101	8.0200e-003	157.9237
Stationary	0.1650	0.0127	0.4296	6.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.10E-04	0.0000	9.5613	9.5613	0.0200	0.0000	10.0611
Waste						0.0000	0.0000		0.0000	0.0000	18.5229	0.0000	18.5229	1.0947	0.0000	45.8898
Water						0.0000	0.0000		0.0000	0.0000	0.0120	0.0173	0.0293	1.2400e-003	3.0000e-005	0.0690
Total	0.8763	0.1652	1.2718	1.8700e-003	0.1580	4.3200e-003	0.1623	0.0422	4.2200e-003	0.0464	18.5349	998.1353	1,016.6702	1.2698	0.0259	1,056.1296

Mitigated Operational

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6215	2.0000e-005	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8200e-003	3.8200e-003	1.0000e-005	0.0000	4.0700e-003
Energy	2.5800e-003	0.0234	0.0197	1.4000e-004		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	833.2709	833.2709	0.1438	0.0178	842.1819
Mobile	0.0873	0.1290	0.8205	1.6700e-003	0.1580	1.6200e-003	0.1596	0.0422	1.5200e-003	0.0437	0.0000	155.2820	155.2820	0.0101	8.0200e-003	157.9237
Stationary	0.1650	0.0127	0.4296	6.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	9.5613	9.5613	0.0200	0.0000	10.0611
Waste						0.0000	0.0000		0.0000	0.0000	9.2615	0.0000	9.2615	0.5473	0.0000	22.9449
Water						0.0000	0.0000		0.0000	0.0000	0.0120	0.0173	0.0293	1.2400e-003	3.0000e-005	0.0690
Total	0.8763	0.1652	1.2718	1.8700e-003	0.1580	4.3200e-003	0.1623	0.0422	4.2200e-003	0.0464	9.2735	998.1353	1,007.4087	0.7225	0.0259	1,033.1847

	ROG	NOx	CO	SO2	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	49.97	0.00	0.91	43.10	0.00	2.17

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	1/1/2022	1/7/2022	5	5	
2	Grading	Grading	1/8/2022	1/19/2022	5	8	
3	Building Construction	Building Construction	1/20/2022	4/29/2022	5	72	
4	Paving	Paving	5/1/2022	5/25/2022	5	18	
5	Architectural Coating	Architectural Coating	4/1/2022	5/30/2022	5	42	

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

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 1.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 208,350; Non-Residential Outdoor: 69,450; Striped Parking Area: 4,500

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Oasis Farm - Solano-San Francisco County, Annual

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	90.00	35.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9300e-003	0.0827	0.0492	1.0000e-004		4.0300e-003	4.0300e-003		3.7100e-003	3.7100e-003	0.0000	8.3599	8.3599	2.7000e-003	0.0000	8.4274
Total	7.9300e-003	0.0827	0.0492	1.0000e-004	0.0491	4.0300e-003	0.0532	0.0253	3.7100e-003	0.0290	0.0000	8.3599	8.3599	2.7000e-003	0.0000	8.4274

Oasis Farm - Solano-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	1.3000e-004	1.0000e-004	1.0800e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2999	0.2999	1.0000e-005	1.0000e-005	0.3028
Total	1.3000e-004	1.0000e-004	1.0800e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2999	0.2999	1.0000e-005	1.0000e-005	0.3028

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					0.0210	0.0000	0.0210	0.0108	0.0000	0.0108	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9300e-003	0.0827	0.0492	1.0000e-004		4.0300e-003	4.0300e-003		3.7100e-003	3.7100e-003	0.0000	8.3598	8.3598	2.7000e-003	0.0000	8.4274
Total	7.9300e-003	0.0827	0.0492	1.0000e-004	0.0210	4.0300e-003	0.0250	0.0108	3.7100e-003	0.0145	0.0000	8.3598	8.3598	2.7000e-003	0.0000	8.4274

Oasis Farm - Solano-San Francisco County, Annual

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

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	1.3000e-004	1.0000e-004	1.0800e-003	0.0000	3.4000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2999	0.2999	1.0000e-005	1.0000e-005	0.3028
Total	1.3000e-004	1.0000e-004	1.0800e-003	0.0000	3.4000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2999	0.2999	1.0000e-005	1.0000e-005	0.3028

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0283	0.0000	0.0283	0.0137	0.0000	0.0137	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7900e-003	0.0834	0.0611	1.2000e-004		3.7600e-003	3.7600e-003		3.4600e-003	3.4600e-003	0.0000	10.4219	10.4219	3.3700e-003	0.0000	10.5062
Total	7.7900e-003	0.0834	0.0611	1.2000e-004	0.0283	3.7600e-003	0.0321	0.0137	3.4600e-003	0.0172	0.0000	10.4219	10.4219	3.3700e-003	0.0000	10.5062

Oasis Farm - Solano-San Francisco County, Annual

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

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	1.8000e-004	1.3000e-004	1.4400e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3999	0.3999	1.0000e-005	1.0000e-005	0.4037
Total	1.8000e-004	1.3000e-004	1.4400e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3999	0.3999	1.0000e-005	1.0000e-005	0.4037

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					0.0121	0.0000	0.0121	5.8600e-003	0.0000	5.8600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7900e-003	0.0834	0.0611	1.2000e-004		3.7600e-003	3.7600e-003		3.4600e-003	3.4600e-003	0.0000	10.4219	10.4219	3.3700e-003	0.0000	10.5062
Total	7.7900e-003	0.0834	0.0611	1.2000e-004	0.0121	3.7600e-003	0.0159	5.8600e-003	3.4600e-003	9.3200e-003	0.0000	10.4219	10.4219	3.3700e-003	0.0000	10.5062

Oasis Farm - Solano-San Francisco County, Annual

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

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	1.8000e-004	1.3000e-004	1.4400e-003	0.0000	4.5000e-004	0.0000	4.5000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3999	0.3999	1.0000e-005	1.0000e-005	0.4037
Total	1.8000e-004	1.3000e-004	1.4400e-003	0.0000	4.5000e-004	0.0000	4.5000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3999	0.3999	1.0000e-005	1.0000e-005	0.4037

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0614	0.5622	0.5891	9.7000e-004		0.0291	0.0291		0.0274	0.0274	0.0000	83.4211	83.4211	0.0200	0.0000	83.9207
Total	0.0614	0.5622	0.5891	9.7000e-004		0.0291	0.0291		0.0274	0.0274	0.0000	83.4211	83.4211	0.0200	0.0000	83.9207

Unmitigated Construction Off-Site

Oasis Farm - Solano-San Francisco County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
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	3.0700e-003	0.0705	0.0233	2.7000e-004	8.3100e-003	8.2000e-004	9.1300e-003	2.4000e-003	7.9000e-004	3.1900e-003	0.0000	26.0733	26.0733	2.0000e-004	3.7300e-003	27.1912
Worker	9.6700e-003	6.9300e-003	0.0778	2.3000e-004	0.0257	1.4000e-004	0.0259	6.8400e-003	1.3000e-004	6.9700e-003	0.0000	21.5930	21.5930	6.9000e-004	6.3000e-004	21.7980
Total	0.0127	0.0775	0.1011	5.0000e-004	0.0340	9.6000e-004	0.0350	9.2400e-003	9.2000e-004	0.0102	0.0000	47.6664	47.6664	8.9000e-004	4.3600e-003	48.9892

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	0.0614	0.5622	0.5891	9.7000e-004		0.0291	0.0291		0.0274	0.0274	0.0000	83.4210	83.4210	0.0200	0.0000	83.9206
Total	0.0614	0.5622	0.5891	9.7000e-004		0.0291	0.0291		0.0274	0.0274	0.0000	83.4210	83.4210	0.0200	0.0000	83.9206

Mitigated Construction Off-Site

Oasis Farm - Solano-San Francisco County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
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	3.0700e-003	0.0705	0.0233	2.7000e-004	7.9600e-003	8.2000e-004	8.7800e-003	2.3200e-003	7.9000e-004	3.1000e-003	0.0000	26.0733	26.0733	2.0000e-004	3.7300e-003	27.1912
Worker	9.6700e-003	6.9300e-003	0.0778	2.3000e-004	0.0244	1.4000e-004	0.0245	6.5100e-003	1.3000e-004	6.6400e-003	0.0000	21.5930	21.5930	6.9000e-004	6.3000e-004	21.7980
Total	0.0127	0.0775	0.1011	5.0000e-004	0.0324	9.6000e-004	0.0333	8.8300e-003	9.2000e-004	9.7400e-003	0.0000	47.6664	47.6664	8.9000e-004	4.3600e-003	48.9892

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.7900e-003	0.0857	0.1098	1.7000e-004		4.3900e-003	4.3900e-003		4.0500e-003	4.0500e-003	0.0000	14.7383	14.7383	4.6300e-003	0.0000	14.8540
Paving	2.2500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0110	0.0857	0.1098	1.7000e-004		4.3900e-003	4.3900e-003		4.0500e-003	4.0500e-003	0.0000	14.7383	14.7383	4.6300e-003	0.0000	14.8540

Unmitigated Construction Off-Site

Oasis Farm - Solano-San Francisco County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.8000e-004	4.3200e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1996	1.1996	4.0000e-005	4.0000e-005	1.2110
Total	5.4000e-004	3.8000e-004	4.3200e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1996	1.1996	4.0000e-005	4.0000e-005	1.2110

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	8.7900e-003	0.0857	0.1098	1.7000e-004		4.3900e-003	4.3900e-003		4.0500e-003	4.0500e-003	0.0000	14.7383	14.7383	4.6300e-003	0.0000	14.8540
Paving	2.2500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0110	0.0857	0.1098	1.7000e-004		4.3900e-003	4.3900e-003		4.0500e-003	4.0500e-003	0.0000	14.7383	14.7383	4.6300e-003	0.0000	14.8540

Mitigated Construction Off-Site

Oasis Farm - Solano-San Francisco County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.8000e-004	4.3200e-003	1.0000e-005	1.3600e-003	1.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1996	1.1996	4.0000e-005	4.0000e-005	1.2110
Total	5.4000e-004	3.8000e-004	4.3200e-003	1.0000e-005	1.3600e-003	1.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1996	1.1996	4.0000e-005	4.0000e-005	1.2110

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7399					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3000e-003	0.0296	0.0381	6.0000e-005		1.7200e-003	1.7200e-003		1.7200e-003	1.7200e-003	0.0000	5.3618	5.3618	3.5000e-004	0.0000	5.3706
Total	0.7442	0.0296	0.0381	6.0000e-005		1.7200e-003	1.7200e-003		1.7200e-003	1.7200e-003	0.0000	5.3618	5.3618	3.5000e-004	0.0000	5.3706

Unmitigated Construction Off-Site

Oasis Farm - Solano-San Francisco County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
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	1.1300e-003	8.1000e-004	9.0700e-003	3.0000e-005	3.0000e-003	2.0000e-005	3.0200e-003	8.0000e-004	2.0000e-005	8.1000e-004	0.0000	2.5192	2.5192	8.0000e-005	7.0000e-005	2.5431
Total	1.1300e-003	8.1000e-004	9.0700e-003	3.0000e-005	3.0000e-003	2.0000e-005	3.0200e-003	8.0000e-004	2.0000e-005	8.1000e-004	0.0000	2.5192	2.5192	8.0000e-005	7.0000e-005	2.5431

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	0.7399					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3000e-003	0.0296	0.0381	6.0000e-005		1.7200e-003	1.7200e-003		1.7200e-003	1.7200e-003	0.0000	5.3618	5.3618	3.5000e-004	0.0000	5.3706
Total	0.7442	0.0296	0.0381	6.0000e-005		1.7200e-003	1.7200e-003		1.7200e-003	1.7200e-003	0.0000	5.3618	5.3618	3.5000e-004	0.0000	5.3706

Mitigated Construction Off-Site

Oasis Farm - Solano-San Francisco County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
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	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	0.0000
Worker	1.1300e-003	8.1000e-004	9.0700e-003	3.0000e-005	2.8500e-003	2.0000e-005	2.8600e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.5192	2.5192	8.0000e-005	7.0000e-005	2.5431	
Total	1.1300e-003	8.1000e-004	9.0700e-003	3.0000e-005	2.8500e-003	2.0000e-005	2.8600e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.5192	2.5192	8.0000e-005	7.0000e-005	2.5431	

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0873	0.1290	0.8205	1.6700e-003	0.1580	1.6200e-003	0.1596	0.0422	1.5200e-003	0.0437	0.0000	155.2820	155.2820	0.0101	8.0200e-003	157.9237
Unmitigated	0.0873	0.1290	0.8205	1.6700e-003	0.1580	1.6200e-003	0.1596	0.0422	1.5200e-003	0.0437	0.0000	155.2820	155.2820	0.0101	8.0200e-003	157.9237

Oasis Farm - Solano-San Francisco County, Annual

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	145.85	145.85	145.85	425,796	425,796
Total	145.85	145.85	145.85	425,796	425,796

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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.549077	0.053956	0.166427	0.135047	0.028441	0.006844	0.008046	0.014808	0.000985	0.000410	0.030126	0.000789	0.0050
Unrefrigerated Warehouse-No Rail	0.549077	0.053956	0.166427	0.135047	0.028441	0.006844	0.008046	0.014808	0.000985	0.000410	0.030126	0.000789	0.0050

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Oasis Farm - Solano-San Francisco County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	807.7728	807.7728	0.1433	0.0174	816.5323
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	807.7728	807.7728	0.1433	0.0174	816.5323
NaturalGas Mitigated	2.5800e-003	0.0234	0.0197	1.4000e-004		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	25.4981	25.4981	4.9000e-004	4.7000e-004	25.6496
NaturalGas Unmitigated	2.5800e-003	0.0234	0.0197	1.4000e-004		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	25.4981	25.4981	4.9000e-004	4.7000e-004	25.6496

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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Pail	477816	2.5800e-003	0.0234	0.0197	1.4000e-004		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	25.4981	25.4981	4.9000e-004	4.7000e-004	25.6496
Total		2.5800e-003	0.0234	0.0197	1.4000e-004		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	25.4981	25.4981	4.9000e-004	4.7000e-004	25.6496

Mitigated

Oasis Farm - Solano-San Francisco County, Annual

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

	Natural Gas 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						
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	477816	2.5800e-003	0.0234	0.0197	1.4000e-004		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	25.4981	25.4981	4.9000e-004	4.7000e-004	25.6496	
Total		2.5800e-003	0.0234	0.0197	1.4000e-004		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	25.4981	25.4981	4.9000e-004	4.7000e-004	25.6496	

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	9.57E+06	807.7728	0.1433	0.0174	816.5323
Total		807.7728	0.1433	0.0174	816.5323

Mitigated

Oasis Farm - Solano-San Francisco County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	9.57E+06	807.7728	0.1433	0.0174	816.5323
Total		807.7728	0.1433	0.0174	816.5323

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6215	2.0000e-005	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8200e-003	3.8200e-003	1.0000e-005	0.0000	4.0700e-003
Unmitigated	0.6215	2.0000e-005	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8200e-003	3.8200e-003	1.0000e-005	0.0000	4.0700e-003

6.2 Area by SubCategory

Unmitigated

Oasis Farm - Solano-San Francisco County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0740					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5473					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8200e-003	3.8200e-003	1.0000e-005	0.0000	4.0700e-003
Total	0.6215	2.0000e-005	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8200e-003	3.8200e-003	1.0000e-005	0.0000	4.0700e-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	0.0740					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5473					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8200e-003	3.8200e-003	1.0000e-005	0.0000	4.0700e-003
Total	0.6215	2.0000e-005	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8200e-003	3.8200e-003	1.0000e-005	0.0000	4.0700e-003

Oasis Farm - Solano-San Francisco County, Annual

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

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0293	1.2400e-003	3.0000e-005	0.0690
Unmitigated	0.0293	1.2400e-003	3.0000e-005	0.0690

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	0.037839 / 0	0.0293	1.2400e-003	3.0000e-005	0.0690
Total		0.0293	1.2400e-003	3.0000e-005	0.0690

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

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Cool	0.037839 / 0	0.0293	1.2400e-003	3.0000e-005	0.0690
Total		0.0293	1.2400e-003	3.0000e-005	0.0690

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.2615	0.5473	0.0000	22.9449
Unmitigated	18.5229	1.0947	0.0000	45.8898

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	91.25	18.5229	1.0947	0.0000	45.8898
Total		18.5229	1.0947	0.0000	45.8898

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	45.625	9.2615	0.5473	0.0000	22.9449
Total		9.2615	0.5473	0.0000	22.9449

Oasis Farm - Solano-San Francisco County, Annual

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

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
Emergency Generator	1	8	50	750	0.73	CNG

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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10.1 Stationary Sources

Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - CNG (500 - 999 HP)	0.1650	0.0127	0.4296	6.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	9.5613	9.5613	0.0200	0.0000	10.0611
Total	0.1650	0.0127	0.4296	6.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	9.5613	9.5613	0.0200	0.0000	10.0611

Oasis Farm - Solano-San Francisco County, Annual

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

11.0 Vegetation

Construction Fuel

	MTCO ₂ e	Gallons of Fuel ⁴	2022 County Fuel	Percent Increase Countywide
On-Site Diesel¹				
Site Preparation/Grading	19	1,872		
Building Construction	84	8,276		
Paving	15	1,478		
Architectural Coating	5	493		
Total	123	12,118	53,507,975.22	0.0226%
Off-Site Diesel¹				
Site Preparation/Grading	0	0		
Building Construction	27	2,660		
Paving	0	0		
Architectural Coating	0	0		
Total	27	2,660	53,507,975.22	0.0050%
Off-Site Gasoline²				
Site Preparation/Grading	2	227		
Building Construction	22	2,497		
Paving	1	114		
Architectural Coating	3	341		
Total	28	3,178	177,536,113	0.0018%
Total Diesel Fuel		14,778	53,507,975	0.0276%
Total Gasoline Fuel		3,178	177,536,113	0.0018%
Total Construction Fuel	178	17,957		

Construction Phase ³	Demolition			Site Preparation			Grading		
	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)
2022	0	0	0	8	0	1	11	0	1
Total	0	0	0	8	0	1	11	0	1

Construction Phase ³	Building Construction			Paving			Architectural Coating		
	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)
2022	84	27	22	15	0	1	5	0	3
Total	84	27	22	15	0	1	5	0	3

Notes:

¹ Fuel used for off-road, hauling, and vendor trips assumed to be diesel.

² Fuel used for worker trips assumed to be gasoline.

³ MTCO₂e rates from CalEEMod (3.0 Construction Details).

⁴ For CO₂e emissions, see Chapter 13 (page 94); Conversion Ratios: Climate Registry, General Reporting Protocol, 2016.

Operational Fuel

Vehicle Type	Percent ¹	Annual VMT ²	MGP ³	Annual Fuel	Fuel Type	County Gallons ⁴	County Percent	Statewide	Statewide percent
Passenger Cars	0.5920	252,071	21.6	11,670	Gas	177,536,113	0.0066%	14,773,931,520	0.0001%
Light/Medium Trucks	0.15000	63,869	17.2	3,713	Diesel	53,507,975	0.0013%	3,625,305,260	0.0001%
Heavy Trucks/Other	0.26	109,855	6.1	18,009	Diesel	53,507,975	0.0063%		
Total	1.000	425,796		21,722		284,552,063	0.0406%		

Notes:

¹ Percent of vehicle trip distribution based on fleet mix from CalEEMod (4.4 Fleet Mix).

² Total annual operational VMT based on mitigated annual VMT from CalEEMod (4.2 Trip Summary Information).

³ Average fuel economy derived from Department of Transportation.

⁴ Total annual county fuel per EMFAC 2017 model of projected operational fuel usage.

Electricity and Natural Gas

	Mitigated Project Annual Energy	County Annual Energy ³	Percentage Increase
Electricity (kWh/yr)	9,574,380	3,226,597,752	0.2967%
Electricity (MWh/yr)	9,574	3,226,598	0.2967%
Electricity (GWh/yr)	9.57	3,226.60	0.2967%
Natural Gas (kBTU/yr)	477,816	23,612,295,500	0.0020%
Natural Gas (therms)	4,778	236,122,955.00	0.0020%

Land Use	Electricity ¹ (kWh/yr)		Natural Gas ² (kBTU/yr)	
	Unmitigated	Mitigated	Unmitigated	Mitigated
Parking Lot	0	0	0	0
Warehouse	9.57E+06	9.57E+06	4.78E+05	4.78E+05
Total Energy	9,574,380	9,574,380	477,816	477,816

Notes:

¹ Electricity use per CalEEMod (5.3 Energy by Land Use).

² Natural Gas use per CalEEMod (5.2 Natural Gas by Land Use).

³ County total energy values from California Energy Commission energy reports available through ecdms.energy.ca.gov.

Construction Water

Daily Soil Disturbance ¹	8	acres
Days of Soil Disturbance ²	13	days
Water Concentration ³	3,020	gallons/acre
Water Energy Intensity ⁴	3,500	kWh/MG
Total Construction Water	0.31	million gallons
Construction Water Energy	1,099	kWh
	0.0110	GWh
Percentage Increase Countywide	0.000341%	

Notes:

- ¹ Total daily acres disturbed from offroad equipment per CalEEMod (3.0 Construction Detail) and maximum SCAQMD LST values for soil-disturbing equipment.
- ² Number of days of construction with soil-disturbing equipment per CalEEMod (3.0 Construction Detail).
- ³ Water application rate per Air and Waste Management Association's Air Pollution Engineering Manual.
- ⁴ Water energy intensity factor for county subarea per CalEEMod User Guide, Appendix D, page D-343.

Operational Water

Mitigated Indoor	0.037	million gallons
Indoor Energy Intensity Factor ¹	5,411	kWh/MG
Mitigated Outdoor	0.00	million gallons
Outdoor Energy Intensity Factor ²	3,500	kWh/MG
Operational Water Energy	200.207	kWh
Operational Water Energy	0.200207	MWh
Operational Water Energy	0.000200207	GWh
Total water use	0.037	million gallons

Land Use ³	Unmitigated (MG)		Mitigated (MG)	
	Indoor	Outdoor	Indoor	Outdoor
Parking Lot	0.0	0.0	0.0	0.0
Warehouse	0.0370	0.0	0.0370	0.0
Total Operational Water	0	0	0	0

Notes:

¹ Indoor water energy intensity factor for county subarea per CalEEMod User Guide, Appendix D, page D-343. Factor includes supply, treatment, distribution, and wastewater.

² Outdoor water energy intensity factor for county subarea per CalEEMod User Guide, Appendix D, page D-343. Factor includes supply, treatment, and distribution.

³ Operational water use values per CalEEMod (7.2 Water by Land Use).