

Appendix AQ

CalEEMod Output Files

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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

**Wood Ranch Cannabis Cultivation Project AQ
Humboldt County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
cannabis cultivation and propagation	100,500 sq. ft.	2000 sqft/unit	~ 8	100,500.00 sq. ft.	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	103
Climate Zone	1			Operational Year	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project is in Humboldt County

Land Use - 44x 2,000 sf of greenhouses and 12,500 sf of dry barn =100,500 square feet on approximately 8 acres of prime agricultural soil.

Construction Phase - Demolition and paving phases were removed. No structures would be demolished, and no improved flooring would occur. Greenhouses would not preclude the agricultural use of the site with paving

Off-road Equipment - Default equipment

Demolition - no demolition

Grading - site assumed to be balanced

Architectural Coating -

Vehicle Trips - Using harvest daily number of trips: 8 daily trips/112.5 ksf = 0.071 (maximum scenario for trips, regular operation = 4 trips per day). Assuming all worker trips, 100% primary and 100% C-W

Area Coating - Assuming only the barn would be painted (12,500 square feet, 75% interior, and 25% exterior based on the CalEEMod Appendix Calcs)

Water And Wastewater - Based on square footage of cultivation area, water demand factor for mixed-light greenhouses is 0.07 gallons/day/square foot

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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

Solid Waste - Changed annual rate based on four cubic yards of waste per week

Operational Off-Road Equipment -

Fleet Mix - Assuming all trips are with LD vehicles since trips are all workers

Stationary Sources - Emergency Generators and Fire Pumps - Two generators, one 70 kVA (56 kW, 75 HP) and one 400 kVA (320 kW, 429). 75 HP generator runs 270 hours/month from 5/1-10/15 (1,485 annual hours). 429 HP generator runs 400 hours/month from 10/15-5/1 (2,600 annual hours).

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	56250	3125
tblAreaCoating	Area_Nonresidential_Interior	168750	9375
tblConstructionPhase	NumDays	10.00	110.00
tblFleetMix	HHD	8.8560e-003	0.00
tblFleetMix	LDA	0.44	0.34
tblFleetMix	LDT1	0.07	0.33
tblFleetMix	LDT2	0.21	0.33
tblFleetMix	LHD1	0.06	0.00
tblFleetMix	LHD2	0.01	0.00
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.15	0.00
tblFleetMix	MH	4.0890e-003	0.00
tblFleetMix	MHD	6.7780e-003	0.00
tblFleetMix	OBUS	9.7500e-004	0.00
tblFleetMix	SBUS	1.4900e-003	0.00
tblFleetMix	UBUS	2.2100e-004	0.00
tblLandUse	LotAcreage	2.58	2.85
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	105.75	0.20
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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

tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	75.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	429.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	1,485.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	2,600.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.74	0.07
tblVehicleTrips	SU_TR	1.74	0.07
tblVehicleTrips	WD_TR	1.74	0.07
tblWater	IndoorWaterUseRate	26,015,625.00	3,288,285.00

2.0 Emissions Summary

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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	0.0702	0.5228	0.5262	1.0500e-003	0.0428	0.0232	0.0660	0.0157	0.0221	0.0378	0.0000	90.4802	90.4802	0.0146	1.9300e-003	91.4205
2023	1.4881	1.2894	1.4999	2.9700e-003	0.0607	0.0551	0.1158	0.0164	0.0529	0.0693	0.0000	255.5805	255.5805	0.0348	5.4900e-003	258.0855
Maximum	1.4881	1.2894	1.4999	2.9700e-003	0.0607	0.0551	0.1158	0.0164	0.0529	0.0693	0.0000	255.5805	255.5805	0.0348	5.4900e-003	258.0855

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	0.0702	0.5228	0.5262	1.0500e-003	0.0428	0.0232	0.0660	0.0157	0.0221	0.0378	0.0000	90.4801	90.4801	0.0146	1.9300e-003	91.4205
2023	1.4881	1.2894	1.4999	2.9700e-003	0.0607	0.0551	0.1158	0.0164	0.0529	0.0693	0.0000	255.5803	255.5803	0.0348	5.4900e-003	258.0852
Maximum	1.4881	1.2894	1.4999	2.9700e-003	0.0607	0.0551	0.1158	0.0164	0.0529	0.0693	0.0000	255.5803	255.5803	0.0348	5.4900e-003	258.0852

Wood Ranch Cannabis Cultivation Project AQ - Humboldt 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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-3-2022	1-2-2023	0.6019	0.6019
2	1-3-2023	4-2-2023	0.6093	0.6093
3	4-3-2023	7-2-2023	1.3695	1.3695
4	7-3-2023	9-30-2023	0.7646	0.7646
		Highest	1.3695	1.3695

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	0.4467	1.0000e-005	1.0300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0100e-003	2.0100e-003	1.0000e-005	0.0000	2.1400e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	4.7600e-003	7.4900e-003	0.0682	1.4000e-004	0.0150	1.0000e-004	0.0151	4.0000e-003	9.0000e-005	4.1000e-003	0.0000	13.0844	13.0844	5.4000e-004	5.2000e-004	13.2517
Stationary	1.0065	2.8560	2.6652	4.8400e-003		0.1481	0.1481		0.1481	0.1481	0.0000	467.1525	467.1525	0.0655	0.0000	468.7899
Waste						0.0000	0.0000		0.0000	0.0000	0.0406	0.0000	0.0406	2.4000e-003	0.0000	0.1006
Water						0.0000	0.0000		0.0000	0.0000	1.0432	1.6463	2.6895	0.1074	2.5600e-003	6.1384
Total	1.4580	2.8635	2.7344	4.9800e-003	0.0150	0.1482	0.1632	4.0000e-003	0.1482	0.1522	1.0838	481.8851	482.9689	0.1759	3.0800e-003	488.2827

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4467	1.0000e-005	1.0300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0100e-003	2.0100e-003	1.0000e-005	0.0000	2.1400e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	4.7600e-003	7.4900e-003	0.0682	1.4000e-004	0.0150	1.0000e-004	0.0151	4.0000e-003	9.0000e-005	4.1000e-003	0.0000	13.0844	13.0844	5.4000e-004	5.2000e-004	13.2517
Stationary	1.0065	2.8560	2.6652	4.8400e-003		0.1481	0.1481		0.1481	0.1481	0.0000	467.1525	467.1525	0.0655	0.0000	468.7899
Waste						0.0000	0.0000		0.0000	0.0000	0.0406	0.0000	0.0406	2.4000e-003	0.0000	0.1006
Water						0.0000	0.0000		0.0000	0.0000	1.0432	1.6463	2.6895	0.1074	2.5600e-003	6.1384
Total	1.4580	2.8635	2.7344	4.9800e-003	0.0150	0.1482	0.1632	4.0000e-003	0.1482	0.1522	1.0838	481.8851	482.9689	0.1759	3.0800e-003	488.2827

	ROG	NOx	CO	SO2	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	10/3/2022	10/5/2022	5	3	
2	Grading	Grading	10/6/2022	10/13/2022	5	6	

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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

3	Building Construction	Building Construction	10/14/2022	8/17/2023	5	220
4	Architectural Coating	Architectural Coating	3/27/2023	8/25/2023	5	110

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 168,750; Non-Residential Outdoor: 56,250; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
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	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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

Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	47.00	18.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0700e-003	0.0235	0.0151	4.0000e-005		8.9000e-004	8.9000e-004		8.2000e-004	8.2000e-004	0.0000	3.2321	3.2321	1.0500e-003	0.0000	3.2582
Total	2.0700e-003	0.0235	0.0151	4.0000e-005	2.3900e-003	8.9000e-004	3.2800e-003	2.6000e-004	8.2000e-004	1.0800e-003	0.0000	3.2321	3.2321	1.0500e-003	0.0000	3.2582

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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

3.2 Site Preparation - 2022

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	9.0000e-005	7.0000e-005	6.4000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1238	0.1238	0.0000	0.0000	0.1254
Total	9.0000e-005	7.0000e-005	6.4000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1238	0.1238	0.0000	0.0000	0.1254

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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0700e-003	0.0235	0.0151	4.0000e-005		8.9000e-004	8.9000e-004		8.2000e-004	8.2000e-004	0.0000	3.2321	3.2321	1.0500e-003	0.0000	3.2582
Total	2.0700e-003	0.0235	0.0151	4.0000e-005	2.3900e-003	8.9000e-004	3.2800e-003	2.6000e-004	8.2000e-004	1.0800e-003	0.0000	3.2321	3.2321	1.0500e-003	0.0000	3.2582

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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

3.2 Site Preparation - 2022

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	9.0000e-005	7.0000e-005	6.4000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1238	0.1238	0.0000	0.0000	0.1254
Total	9.0000e-005	7.0000e-005	6.4000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1238	0.1238	0.0000	0.0000	0.1254

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					0.0213	0.0000	0.0213	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6200e-003	0.0510	0.0277	6.0000e-005		2.2300e-003	2.2300e-003		2.0500e-003	2.0500e-003	0.0000	5.4308	5.4308	1.7600e-003	0.0000	5.4747
Total	4.6200e-003	0.0510	0.0277	6.0000e-005	0.0213	2.2300e-003	0.0235	0.0103	2.0500e-003	0.0123	0.0000	5.4308	5.4308	1.7600e-003	0.0000	5.4747

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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

3.3 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.7000e-004	1.5900e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3095	0.3095	1.0000e-005	1.0000e-005	0.3134
Total	2.2000e-004	1.7000e-004	1.5900e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3095	0.3095	1.0000e-005	1.0000e-005	0.3134

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					0.0213	0.0000	0.0213	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6200e-003	0.0510	0.0277	6.0000e-005		2.2300e-003	2.2300e-003		2.0500e-003	2.0500e-003	0.0000	5.4308	5.4308	1.7600e-003	0.0000	5.4747
Total	4.6200e-003	0.0510	0.0277	6.0000e-005	0.0213	2.2300e-003	0.0235	0.0103	2.0500e-003	0.0123	0.0000	5.4308	5.4308	1.7600e-003	0.0000	5.4747

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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

3.3 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.7000e-004	1.5900e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3095	0.3095	1.0000e-005	1.0000e-005	0.3134
Total	2.2000e-004	1.7000e-004	1.5900e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3095	0.3095	1.0000e-005	1.0000e-005	0.3134

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	0.0520	0.4089	0.4019	7.0000e-004		0.0197	0.0197		0.0189	0.0189	0.0000	58.1504	58.1504	0.0112	0.0000	58.4309
Total	0.0520	0.4089	0.4019	7.0000e-004		0.0197	0.0197		0.0189	0.0189	0.0000	58.1504	58.1504	0.0112	0.0000	58.4309

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3800e-003	0.0316	9.3700e-003	1.0000e-004	2.9300e-003	3.0000e-004	3.2300e-003	8.5000e-004	2.9000e-004	1.1400e-003	0.0000	9.6572	9.6572	6.0000e-005	1.3900e-003	10.0715
Worker	9.8300e-003	7.5600e-003	0.0700	1.5000e-004	0.0158	1.1000e-004	0.0159	4.2000e-003	1.0000e-004	4.3100e-003	0.0000	13.5764	13.5764	5.3000e-004	5.3000e-004	13.7465
Total	0.0112	0.0392	0.0793	2.5000e-004	0.0187	4.1000e-004	0.0191	5.0500e-003	3.9000e-004	5.4500e-003	0.0000	23.2336	23.2336	5.9000e-004	1.9200e-003	23.8180

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	0.0520	0.4089	0.4019	7.0000e-004		0.0197	0.0197		0.0189	0.0189	0.0000	58.1504	58.1504	0.0112	0.0000	58.4308
Total	0.0520	0.4089	0.4019	7.0000e-004		0.0197	0.0197		0.0189	0.0189	0.0000	58.1504	58.1504	0.0112	0.0000	58.4308

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3800e-003	0.0316	9.3700e-003	1.0000e-004	2.9300e-003	3.0000e-004	3.2300e-003	8.5000e-004	2.9000e-004	1.1400e-003	0.0000	9.6572	9.6572	6.0000e-005	1.3900e-003	10.0715
Worker	9.8300e-003	7.5600e-003	0.0700	1.5000e-004	0.0158	1.1000e-004	0.0159	4.2000e-003	1.0000e-004	4.3100e-003	0.0000	13.5764	13.5764	5.3000e-004	5.3000e-004	13.7465
Total	0.0112	0.0392	0.0793	2.5000e-004	0.0187	4.1000e-004	0.0191	5.0500e-003	3.9000e-004	5.4500e-003	0.0000	23.2336	23.2336	5.9000e-004	1.9200e-003	23.8180

3.4 Building Construction - 2023

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	0.1405	1.1172	1.1656	2.0500e-003		0.0503	0.0503		0.0482	0.0482	0.0000	170.3157	170.3157	0.0322	0.0000	171.1209
Total	0.1405	1.1172	1.1656	2.0500e-003		0.0503	0.0503		0.0482	0.0482	0.0000	170.3157	170.3157	0.0322	0.0000	171.1209

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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

3.4 Building Construction - 2023

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	2.8500e-003	0.0785	0.0247	2.9000e-004	8.5800e-003	5.1000e-004	9.0800e-003	2.4900e-003	4.8000e-004	2.9700e-003	0.0000	27.4145	27.4145	1.3000e-004	3.9000e-003	28.5800
Worker	0.0271	0.0196	0.1861	4.2000e-004	0.0462	3.0000e-004	0.0465	0.0123	2.8000e-004	0.0126	0.0000	38.8213	38.8213	1.3900e-003	1.4100e-003	39.2761
Total	0.0299	0.0981	0.2108	7.1000e-004	0.0548	8.1000e-004	0.0556	0.0148	7.6000e-004	0.0156	0.0000	66.2358	66.2358	1.5200e-003	5.3100e-003	67.8561

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	0.1405	1.1172	1.1656	2.0500e-003		0.0503	0.0503		0.0482	0.0482	0.0000	170.3155	170.3155	0.0322	0.0000	171.1207
Total	0.1405	1.1172	1.1656	2.0500e-003		0.0503	0.0503		0.0482	0.0482	0.0000	170.3155	170.3155	0.0322	0.0000	171.1207

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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

3.4 Building Construction - 2023

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	2.8500e-003	0.0785	0.0247	2.9000e-004	8.5800e-003	5.1000e-004	9.0800e-003	2.4900e-003	4.8000e-004	2.9700e-003	0.0000	27.4145	27.4145	1.3000e-004	3.9000e-003	28.5800
Worker	0.0271	0.0196	0.1861	4.2000e-004	0.0462	3.0000e-004	0.0465	0.0123	2.8000e-004	0.0126	0.0000	38.8213	38.8213	1.3900e-003	1.4100e-003	39.2761
Total	0.0299	0.0981	0.2108	7.1000e-004	0.0548	8.1000e-004	0.0556	0.0148	7.6000e-004	0.0156	0.0000	66.2358	66.2358	1.5200e-003	5.3100e-003	67.8561

3.5 Architectural Coating - 2023

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	1.3036					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0105	0.0717	0.0996	1.6000e-004		3.9000e-003	3.9000e-003		3.9000e-003	3.9000e-003	0.0000	14.0429	14.0429	8.4000e-004	0.0000	14.0639
Total	1.3141	0.0717	0.0996	1.6000e-004		3.9000e-003	3.9000e-003		3.9000e-003	3.9000e-003	0.0000	14.0429	14.0429	8.4000e-004	0.0000	14.0639

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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

3.5 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4800e-003	2.5100e-003	0.0239	5.0000e-005	5.9300e-003	4.0000e-005	5.9700e-003	1.5800e-003	4.0000e-005	1.6200e-003	0.0000	4.9861	4.9861	1.8000e-004	1.8000e-004	5.0445
Total	3.4800e-003	2.5100e-003	0.0239	5.0000e-005	5.9300e-003	4.0000e-005	5.9700e-003	1.5800e-003	4.0000e-005	1.6200e-003	0.0000	4.9861	4.9861	1.8000e-004	1.8000e-004	5.0445

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	1.3036					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0105	0.0717	0.0996	1.6000e-004		3.9000e-003	3.9000e-003		3.9000e-003	3.9000e-003	0.0000	14.0429	14.0429	8.4000e-004	0.0000	14.0639
Total	1.3141	0.0717	0.0996	1.6000e-004		3.9000e-003	3.9000e-003		3.9000e-003	3.9000e-003	0.0000	14.0429	14.0429	8.4000e-004	0.0000	14.0639

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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

3.5 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4800e-003	2.5100e-003	0.0239	5.0000e-005	5.9300e-003	4.0000e-005	5.9700e-003	1.5800e-003	4.0000e-005	1.6200e-003	0.0000	4.9861	4.9861	1.8000e-004	1.8000e-004	5.0445
Total	3.4800e-003	2.5100e-003	0.0239	5.0000e-005	5.9300e-003	4.0000e-005	5.9700e-003	1.5800e-003	4.0000e-005	1.6200e-003	0.0000	4.9861	4.9861	1.8000e-004	1.8000e-004	5.0445

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Wood Ranch Cannabis Cultivation Project AQ - Humboldt 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					
Mitigated	0.4467	1.0000e-005	1.0300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0100e-003	2.0100e-003	1.0000e-005	0.0000	2.1400e-003
Unmitigated	0.4467	1.0000e-005	1.0300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0100e-003	2.0100e-003	1.0000e-005	0.0000	2.1400e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	7.2400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4394					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0100e-003	2.0100e-003	1.0000e-005	0.0000	2.1400e-003
Total	0.4467	1.0000e-005	1.0300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0100e-003	2.0100e-003	1.0000e-005	0.0000	2.1400e-003

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	7.2400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4394					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0100e-003	2.0100e-003	1.0000e-005	0.0000	2.1400e-003
Total	0.4467	1.0000e-005	1.0300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0100e-003	2.0100e-003	1.0000e-005	0.0000	2.1400e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.6895	0.1074	2.5600e-003	6.1384
Unmitigated	2.6895	0.1074	2.5600e-003	6.1384

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	3.28829 / 0	2.6895	0.1074	2.5600e-003	6.1384
Total		2.6895	0.1074	2.5600e-003	6.1384

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	3.28829 / 0	2.6895	0.1074	2.5600e-003	6.1384
Total		2.6895	0.1074	2.5600e-003	6.1384

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0406	2.4000e-003	0.0000	0.1006
Unmitigated	0.0406	2.4000e-003	0.0000	0.1006

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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			
Unrefrigerated Warehouse-No Rail	0.2	0.0406	2.4000e-003	0.0000	0.1006
Total		0.0406	2.4000e-003	0.0000	0.1006

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	0.2	0.0406	2.4000e-003	0.0000	0.1006
Total		0.0406	2.4000e-003	0.0000	0.1006

9.0 Operational Offroad

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

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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

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	0	1485	75	0.73	Diesel
Emergency Generator	1	0	2600	429	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

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 - Diesel (300 - 600 HP)	0.9151	2.5580	2.3336	4.4000e-003		0.1346	0.1346		0.1346	0.1346	0.0000	424.7412	424.7412	0.0596	0.0000	426.2299
Emergency Generator - Diesel (75 - 100 HP)	0.0914	0.2980	0.3316	4.4000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	42.4113	42.4113	5.9500e-003	0.0000	42.5599
Total	1.0065	2.8560	2.6652	4.8400e-003		0.1481	0.1481		0.1481	0.1481	0.0000	467.1525	467.1525	0.0655	0.0000	468.7899

11.0 Vegetation

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Annual

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

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Winter

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

**Wood Ranch Cannabis Cultivation Project AQ
Humboldt County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	112.50	1000sqft	2.85	112,500.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	103
Climate Zone	1			Operational Year	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project is in Humboldt County

Land Use - 40x 2,500 sf of greenhouses and 12,500 sf of dry barn =112,500 square feet on 2.85 acres

Construction Phase - Demolition and paving phases were removed. No structures would be demolished, and no improved flooring would occur. Greenhouses would not preclude the agricultural use of the site with paving

Off-road Equipment - Default equipment

Demolition - no demolition

Grading - site assumed to be balanced

Architectural Coating -

Vehicle Trips - Using harvest daily number of trips: 8 daily trips/112.5 ksf = 0.071 (maximum scenario for trips, regular operation = 4 trips per day). Assuming all worker trips, 100% primary and 100% C-W

Area Coating - Assuming only the barn would be painted (12,500 square feet, 75% interior, and 25% exterior based on the CalEEMod Appendix Calcs)

Water And Wastewater - Based on square footage of cultivation area, water demand factor for mixed-light greenhouses is 0.07 gallons/day/square foot

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Winter

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

Solid Waste - Changed annual rate based on four cubic yards of waste per week

Operational Off-Road Equipment -

Fleet Mix - Assuming all trips are with LD vehicles since trips are all workers

Stationary Sources - Emergency Generators and Fire Pumps - Two generators, one 70 kVA (56 kW, 75 HP) and one 400 kVA (320 kW, 429). 75 HP generator runs 270 hours/month from 5/1-10/15 (1,485 annual hours). 429 HP generator runs 400 hours/month from 10/15-5/1 (2,600 annual hours).

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	56250	3125
tblAreaCoating	Area_Nonresidential_Interior	168750	9375
tblConstructionPhase	NumDays	10.00	110.00
tblFleetMix	HHD	8.8560e-003	0.00
tblFleetMix	LDA	0.44	0.34
tblFleetMix	LDT1	0.07	0.33
tblFleetMix	LDT2	0.21	0.33
tblFleetMix	LHD1	0.06	0.00
tblFleetMix	LHD2	0.01	0.00
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.15	0.00
tblFleetMix	MH	4.0890e-003	0.00
tblFleetMix	MHD	6.7780e-003	0.00
tblFleetMix	OBUS	9.7500e-004	0.00
tblFleetMix	SBUS	1.4900e-003	0.00
tblFleetMix	UBUS	2.2100e-004	0.00
tblLandUse	LotAcreage	2.58	2.85
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	105.75	0.20
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Winter

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

tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	75.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	429.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	1,485.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	2,600.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.74	0.07
tblVehicleTrips	SU_TR	1.74	0.07
tblVehicleTrips	WD_TR	1.74	0.07
tblWater	IndoorWaterUseRate	26,015,625.00	3,288,285.00

2.0 Emissions Summary

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.2940	17.0475	17.2521	0.0339	7.2103	0.7431	7.9534	3.4586	0.6872	4.1423	0.0000	3,202.4330	3,202.4330	0.7719	0.0769	3,236.9902
2023	26.0789	16.2300	19.1021	0.0376	0.8254	0.6950	1.5204	0.2214	0.6688	0.8902	0.0000	3,559.7081	3,559.7081	0.4747	0.0768	3,594.4636
Maximum	26.0789	17.0475	19.1021	0.0376	7.2103	0.7431	7.9534	3.4586	0.6872	4.1423	0.0000	3,559.7081	3,559.7081	0.7719	0.0769	3,594.4636

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.2940	17.0475	17.2521	0.0339	7.2103	0.7431	7.9534	3.4586	0.6872	4.1423	0.0000	3,202.4330	3,202.4330	0.7719	0.0769	3,236.9902
2023	26.0789	16.2300	19.1021	0.0376	0.8254	0.6950	1.5204	0.2214	0.6688	0.8902	0.0000	3,559.7081	3,559.7081	0.4747	0.0768	3,594.4636
Maximum	26.0789	17.0475	19.1021	0.0376	7.2103	0.7431	7.9534	3.4586	0.6872	4.1423	0.0000	3,559.7081	3,559.7081	0.7719	0.0769	3,594.4636

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Winter

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

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

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	2.4483	1.0000e-004	0.0115	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0246	0.0246	6.0000e-005		0.0262
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0259	0.0458	0.3845	7.7000e-004	0.0880	5.6000e-004	0.0885	0.0233	5.2000e-004	0.0238		79.1026	79.1026	3.4300e-003	3.3600e-003	80.1909
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.4741	0.0459	0.3960	7.7000e-004	0.0880	6.0000e-004	0.0886	0.0233	5.6000e-004	0.0239		79.1272	79.1272	3.4900e-003	3.3600e-003	80.2172

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Winter

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.4483	1.0000e-004	0.0115	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0246	0.0246	6.0000e-005		0.0262
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0259	0.0458	0.3845	7.7000e-004	0.0880	5.6000e-004	0.0885	0.0233	5.2000e-004	0.0238		79.1026	79.1026	3.4300e-003	3.3600e-003	80.1909
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.4741	0.0459	0.3960	7.7000e-004	0.0880	6.0000e-004	0.0886	0.0233	5.6000e-004	0.0239		79.1272	79.1272	3.4900e-003	3.3600e-003	80.2172

	ROG	NOx	CO	SO2	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	10/3/2022	10/5/2022	5	3	
2	Grading	Grading	10/6/2022	10/13/2022	5	6	
3	Building Construction	Building Construction	10/14/2022	8/17/2023	5	220	
4	Architectural Coating	Architectural Coating	3/27/2023	8/25/2023	5	110	

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Winter

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

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 168,750; Non-Residential Outdoor: 56,250; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
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	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	47.00	18.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Wood Ranch Cannabis Cultivation Project AQ - Humboldt 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

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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.3784	15.6673	10.0558	0.0245		0.5952	0.5952		0.5476	0.5476		2,375.1569	2,375.1569	0.7682		2,394.3613
Total	1.3784	15.6673	10.0558	0.0245	1.5908	0.5952	2.1859	0.1718	0.5476	0.7193		2,375.1569	2,375.1569	0.7682		2,394.3613

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Winter

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

3.2 Site Preparation - 2022

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	0.0662	0.0511	0.4353	8.9000e-004	0.1022	6.7000e-004	0.1029	0.0271	6.2000e-004	0.0277		90.6891	90.6891	3.6800e-003	3.7900e-003	91.9120
Total	0.0662	0.0511	0.4353	8.9000e-004	0.1022	6.7000e-004	0.1029	0.0271	6.2000e-004	0.0277		90.6891	90.6891	3.6800e-003	3.7900e-003	91.9120

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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.3784	15.6673	10.0558	0.0245		0.5952	0.5952		0.5476	0.5476	0.0000	2,375.1569	2,375.1569	0.7682		2,394.3613
Total	1.3784	15.6673	10.0558	0.0245	1.5908	0.5952	2.1859	0.1718	0.5476	0.7193	0.0000	2,375.1569	2,375.1569	0.7682		2,394.3613

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Winter

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

3.2 Site Preparation - 2022

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	0.0662	0.0511	0.4353	8.9000e-004	0.1022	6.7000e-004	0.1029	0.0271	6.2000e-004	0.0277		90.6891	90.6891	3.6800e-003	3.7900e-003	91.9120
Total	0.0662	0.0511	0.4353	8.9000e-004	0.1022	6.7000e-004	0.1029	0.0271	6.2000e-004	0.0277		90.6891	90.6891	3.6800e-003	3.7900e-003	91.9120

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	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829		1,995.4825	1,995.4825	0.6454		2,011.6169
Total	1.5403	16.9836	9.2202	0.0206	7.0826	0.7423	7.8249	3.4247	0.6829	4.1076		1,995.4825	1,995.4825	0.6454		2,011.6169

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Winter

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

3.3 Grading - 2022

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	0.0827	0.0638	0.5442	1.1100e-003	0.1277	8.4000e-004	0.1286	0.0339	7.7000e-004	0.0346		113.3613	113.3613	4.6000e-003	4.7400e-003	114.8899
Total	0.0827	0.0638	0.5442	1.1100e-003	0.1277	8.4000e-004	0.1286	0.0339	7.7000e-004	0.0346		113.3613	113.3613	4.6000e-003	4.7400e-003	114.8899

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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169
Total	1.5403	16.9836	9.2202	0.0206	7.0826	0.7423	7.8249	3.4247	0.6829	4.1076	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Winter

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

3.3 Grading - 2022

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	0.0827	0.0638	0.5442	1.1100e-003	0.1277	8.4000e-004	0.1286	0.0339	7.7000e-004	0.0346		113.3613	113.3613	4.6000e-003	4.7400e-003	114.8899
Total	0.0827	0.0638	0.5442	1.1100e-003	0.1277	8.4000e-004	0.1286	0.0339	7.7000e-004	0.0346		113.3613	113.3613	4.6000e-003	4.7400e-003	114.8899

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	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Winter

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

3.4 Building Construction - 2022

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	0.0498	1.1612	0.3414	3.6100e-003	0.1101	0.0109	0.1210	0.0317	0.0104	0.0421		380.3534	380.3534	2.3500e-003	0.0546	396.6845
Worker	0.3887	0.3001	2.5575	5.2400e-003	0.6003	3.9300e-003	0.6043	0.1592	3.6300e-003	0.1628		532.7983	532.7983	0.0216	0.0223	539.9827
Total	0.4385	1.4612	2.8989	8.8500e-003	0.7104	0.0148	0.7253	0.1909	0.0141	0.2050		913.1517	913.1517	0.0240	0.0769	936.6672

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	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Winter

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

3.4 Building Construction - 2022

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	0.0498	1.1612	0.3414	3.6100e-003	0.1101	0.0109	0.1210	0.0317	0.0104	0.0421		380.3534	380.3534	2.3500e-003	0.0546	396.6845
Worker	0.3887	0.3001	2.5575	5.2400e-003	0.6003	3.9300e-003	0.6043	0.1592	3.6300e-003	0.1628		532.7983	532.7983	0.0216	0.0223	539.9827
Total	0.4385	1.4612	2.8989	8.8500e-003	0.7104	0.0148	0.7253	0.1909	0.0141	0.2050		913.1517	913.1517	0.0240	0.0769	936.6672

3.4 Building Construction - 2023

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	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Winter

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

3.4 Building Construction - 2023

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	0.0352	0.9870	0.3072	3.5000e-003	0.1101	6.1800e-003	0.1163	0.0317	5.9100e-003	0.0376		368.8953	368.8953	1.6600e-003	0.0525	384.5933
Worker	0.3665	0.2653	2.3242	5.0800e-003	0.6003	3.6600e-003	0.6040	0.1592	3.3800e-003	0.1626		520.2240	520.2240	0.0195	0.0204	526.7806
Total	0.4017	1.2523	2.6314	8.5800e-003	0.7105	9.8400e-003	0.7203	0.1909	9.2900e-003	0.2002		889.1193	889.1193	0.0211	0.0729	911.3739

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	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Winter

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

3.4 Building Construction - 2023

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	0.0352	0.9870	0.3072	3.5000e-003	0.1101	6.1800e-003	0.1163	0.0317	5.9100e-003	0.0376		368.8953	368.8953	1.6600e-003	0.0525	384.5933
Worker	0.3665	0.2653	2.3242	5.0800e-003	0.6003	3.6600e-003	0.6040	0.1592	3.3800e-003	0.1626		520.2240	520.2240	0.0195	0.0204	526.7806
Total	0.4017	1.2523	2.6314	8.5800e-003	0.7105	9.8400e-003	0.7203	0.1909	9.2900e-003	0.2002		889.1193	889.1193	0.0211	0.0729	911.3739

3.5 Architectural Coating - 2023

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	23.7017					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	23.8934	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Winter

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

3.5 Architectural Coating - 2023

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	0.0702	0.0508	0.4451	9.7000e-004	0.1150	7.0000e-004	0.1157	0.0305	6.5000e-004	0.0311		99.6174	99.6174	3.7300e-003	3.9000e-003	100.8729
Total	0.0702	0.0508	0.4451	9.7000e-004	0.1150	7.0000e-004	0.1157	0.0305	6.5000e-004	0.0311		99.6174	99.6174	3.7300e-003	3.9000e-003	100.8729

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	23.7017					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	23.8934	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Winter

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

3.5 Architectural Coating - 2023

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	0.0702	0.0508	0.4451	9.7000e-004	0.1150	7.0000e-004	0.1157	0.0305	6.5000e-004	0.0311		99.6174	99.6174	3.7300e-003	3.9000e-003	100.8729
Total	0.0702	0.0508	0.4451	9.7000e-004	0.1150	7.0000e-004	0.1157	0.0305	6.5000e-004	0.0311		99.6174	99.6174	3.7300e-003	3.9000e-003	100.8729

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Winter

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

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
Unrefrigerated Warehouse-No Rail	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	
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Winter

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	2.4483	1.0000e-004	0.0115	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0246	0.0246	6.0000e-005		0.0262
Unmitigated	2.4483	1.0000e-004	0.0115	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0246	0.0246	6.0000e-005		0.0262

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Winter

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

6.2 Area by SubCategory

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	0.0397					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0600e-003	1.0000e-004	0.0115	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0246	0.0246	6.0000e-005		0.0262
Total	2.4482	1.0000e-004	0.0115	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0246	0.0246	6.0000e-005		0.0262

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0397					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0600e-003	1.0000e-004	0.0115	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0246	0.0246	6.0000e-005		0.0262
Total	2.4482	1.0000e-004	0.0115	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0246	0.0246	6.0000e-005		0.0262

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Winter

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

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	1485	75	0.73	Diesel
Emergency Generator	1	0	2600	429	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

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 - Diesel (300 - 600 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Emergency Generator - Diesel (75 - 100 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

11.0 Vegetation

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Summer

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

**Wood Ranch Cannabis Cultivation Project AQ
Humboldt County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	112.50	1000sqft	2.85	112,500.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	103
Climate Zone	1			Operational Year	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project is in Humboldt County

Land Use - 40x 2,500 sf of greenhouses and 12,500 sf of dry barn =112,500 square feet on 2.85 acres

Construction Phase - Demolition and paving phases were removed. No structures would be demolished, and no improved flooring would occur. Greenhouses would not preclude the agricultural use of the site with paving

Off-road Equipment - Default equipment

Demolition - no demolition

Grading - site assumed to be balanced

Architectural Coating -

Vehicle Trips - Using harvest daily number of trips: 8 daily trips/112.5 ksf = 0.071 (maximum scenario for trips, regular operation = 4 trips per day). Assuming all worker trips, 100% primary and 100% C-W

Area Coating - Assuming only the barn would be painted (12,500 square feet, 75% interior, and 25% exterior based on the CalEEMod Appendix Calcs)

Water And Wastewater - Based on square footage of cultivation area, water demand factor for mixed-light greenhouses is 0.07 gallons/day/square foot

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Summer

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

Solid Waste - Changed annual rate based on four cubic yards of waste per week

Operational Off-Road Equipment -

Fleet Mix - Assuming all trips are with LD vehicles since trips are all workers

Stationary Sources - Emergency Generators and Fire Pumps - Two generators, one 70 kVA (56 kW, 75 HP) and one 400 kVA (320 kW, 429). 75 HP generator runs 270 hours/month from 5/1-10/15 (1,485 annual hours). 429 HP generator runs 400 hours/month from 10/15-5/1 (2,600 annual hours).

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	56250	3125
tblAreaCoating	Area_Nonresidential_Interior	168750	9375
tblConstructionPhase	NumDays	10.00	110.00
tblFleetMix	HHD	8.8560e-003	0.00
tblFleetMix	LDA	0.44	0.34
tblFleetMix	LDT1	0.07	0.33
tblFleetMix	LDT2	0.21	0.33
tblFleetMix	LHD1	0.06	0.00
tblFleetMix	LHD2	0.01	0.00
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.15	0.00
tblFleetMix	MH	4.0890e-003	0.00
tblFleetMix	MHD	6.7780e-003	0.00
tblFleetMix	OBUS	9.7500e-004	0.00
tblFleetMix	SBUS	1.4900e-003	0.00
tblFleetMix	UBUS	2.2100e-004	0.00
tblLandUse	LotAcreage	2.58	2.85
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	105.75	0.20
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Summer

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

tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	75.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	429.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	1,485.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	2,600.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.74	0.07
tblVehicleTrips	SU_TR	1.74	0.07
tblVehicleTrips	WD_TR	1.74	0.07
tblWater	IndoorWaterUseRate	26,015,625.00	3,288,285.00

2.0 Emissions Summary

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.2298	17.0367	17.1241	0.0339	7.2103	0.7431	7.9534	3.4586	0.6871	4.1423	0.0000	3,203.4571	3,203.4571	0.7716	0.0741	3,237.1535
2023	26.0059	16.1334	18.9636	0.0376	0.8254	0.6950	1.5204	0.2214	0.6688	0.8901	0.0000	3,560.6091	3,560.6091	0.4731	0.0738	3,594.4191
Maximum	26.0059	17.0367	18.9636	0.0376	7.2103	0.7431	7.9534	3.4586	0.6871	4.1423	0.0000	3,560.6091	3,560.6091	0.7716	0.0741	3,594.4191

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.2298	17.0367	17.1241	0.0339	7.2103	0.7431	7.9534	3.4586	0.6871	4.1423	0.0000	3,203.4571	3,203.4571	0.7716	0.0741	3,237.1535
2023	26.0059	16.1334	18.9636	0.0376	0.8254	0.6950	1.5204	0.2214	0.6688	0.8901	0.0000	3,560.6091	3,560.6091	0.4731	0.0738	3,594.4191
Maximum	26.0059	17.0367	18.9636	0.0376	7.2103	0.7431	7.9534	3.4586	0.6871	4.1423	0.0000	3,560.6091	3,560.6091	0.7716	0.0741	3,594.4191

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Summer

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

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

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	2.4483	1.0000e-004	0.0115	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0246	0.0246	6.0000e-005		0.0262
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0265	0.0381	0.3661	7.7000e-004	0.0880	5.6000e-004	0.0885	0.0233	5.2000e-004	0.0238		79.2857	79.2857	3.1700e-003	2.9700e-003	80.2488
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.4747	0.0382	0.3776	7.7000e-004	0.0880	6.0000e-004	0.0886	0.0233	5.6000e-004	0.0239		79.3103	79.3103	3.2300e-003	2.9700e-003	80.2750

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Summer

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.4483	1.0000e-004	0.0115	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0246	0.0246	6.0000e-005		0.0262
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0265	0.0381	0.3661	7.7000e-004	0.0880	5.6000e-004	0.0885	0.0233	5.2000e-004	0.0238		79.2857	79.2857	3.1700e-003	2.9700e-003	80.2488
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.4747	0.0382	0.3776	7.7000e-004	0.0880	6.0000e-004	0.0886	0.0233	5.6000e-004	0.0239		79.3103	79.3103	3.2300e-003	2.9700e-003	80.2750

	ROG	NOx	CO	SO2	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	10/3/2022	10/5/2022	5	3	
2	Grading	Grading	10/6/2022	10/13/2022	5	6	
3	Building Construction	Building Construction	10/14/2022	8/17/2023	5	220	
4	Architectural Coating	Architectural Coating	3/27/2023	8/25/2023	5	110	

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Summer

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

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 168,750; Non-Residential Outdoor: 56,250; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
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	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	47.00	18.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Summer

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

3.1 Mitigation Measures Construction

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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.3784	15.6673	10.0558	0.0245		0.5952	0.5952		0.5476	0.5476		2,375.1569	2,375.1569	0.7682		2,394.3613
Total	1.3784	15.6673	10.0558	0.0245	1.5908	0.5952	2.1859	0.1718	0.5476	0.7193		2,375.1569	2,375.1569	0.7682		2,394.3613

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Summer

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

3.2 Site Preparation - 2022

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	0.0554	0.0425	0.4157	8.9000e-004	0.1022	6.7000e-004	0.1029	0.0271	6.2000e-004	0.0277		90.9110	90.9110	3.4300e-003	3.3400e-003	91.9935
Total	0.0554	0.0425	0.4157	8.9000e-004	0.1022	6.7000e-004	0.1029	0.0271	6.2000e-004	0.0277		90.9110	90.9110	3.4300e-003	3.3400e-003	91.9935

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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.3784	15.6673	10.0558	0.0245		0.5952	0.5952		0.5476	0.5476	0.0000	2,375.1569	2,375.1569	0.7682		2,394.3613
Total	1.3784	15.6673	10.0558	0.0245	1.5908	0.5952	2.1859	0.1718	0.5476	0.7193	0.0000	2,375.1569	2,375.1569	0.7682		2,394.3613

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Summer

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

3.2 Site Preparation - 2022

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	0.0554	0.0425	0.4157	8.9000e-004	0.1022	6.7000e-004	0.1029	0.0271	6.2000e-004	0.0277		90.9110	90.9110	3.4300e-003	3.3400e-003	91.9935
Total	0.0554	0.0425	0.4157	8.9000e-004	0.1022	6.7000e-004	0.1029	0.0271	6.2000e-004	0.0277		90.9110	90.9110	3.4300e-003	3.3400e-003	91.9935

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	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829		1,995.4825	1,995.4825	0.6454		2,011.6169
Total	1.5403	16.9836	9.2202	0.0206	7.0826	0.7423	7.8249	3.4247	0.6829	4.1076		1,995.4825	1,995.4825	0.6454		2,011.6169

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Summer

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

3.3 Grading - 2022

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	0.0693	0.0531	0.5196	1.1200e-003	0.1277	8.4000e-004	0.1286	0.0339	7.7000e-004	0.0346		113.6387	113.6387	4.2900e-003	4.1800e-003	114.9919
Total	0.0693	0.0531	0.5196	1.1200e-003	0.1277	8.4000e-004	0.1286	0.0339	7.7000e-004	0.0346		113.6387	113.6387	4.2900e-003	4.1800e-003	114.9919

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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169
Total	1.5403	16.9836	9.2202	0.0206	7.0826	0.7423	7.8249	3.4247	0.6829	4.1076	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Summer

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

3.3 Grading - 2022

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	0.0693	0.0531	0.5196	1.1200e-003	0.1277	8.4000e-004	0.1286	0.0339	7.7000e-004	0.0346		113.6387	113.6387	4.2900e-003	4.1800e-003	114.9919
Total	0.0693	0.0531	0.5196	1.1200e-003	0.1277	8.4000e-004	0.1286	0.0339	7.7000e-004	0.0346		113.6387	113.6387	4.2900e-003	4.1800e-003	114.9919

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	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Summer

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

3.4 Building Construction - 2022

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	0.0487	1.1135	0.3286	3.6100e-003	0.1101	0.0109	0.1210	0.0317	0.0104	0.0421		380.0738	380.0738	2.3900e-003	0.0545	396.3685
Worker	0.3255	0.2497	2.4423	5.2500e-003	0.6003	3.9300e-003	0.6043	0.1592	3.6300e-003	0.1628		534.1021	534.1021	0.0202	0.0197	540.4621
Total	0.3743	1.3632	2.7709	8.8600e-003	0.7104	0.0148	0.7252	0.1909	0.0140	0.2049		914.1759	914.1759	0.0226	0.0741	936.8306

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	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Summer

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

3.4 Building Construction - 2022

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	0.0487	1.1135	0.3286	3.6100e-003	0.1101	0.0109	0.1210	0.0317	0.0104	0.0421		380.0738	380.0738	2.3900e-003	0.0545	396.3685
Worker	0.3255	0.2497	2.4423	5.2500e-003	0.6003	3.9300e-003	0.6043	0.1592	3.6300e-003	0.1628		534.1021	534.1021	0.0202	0.0197	540.4621
Total	0.3743	1.3632	2.7709	8.8600e-003	0.7104	0.0148	0.7252	0.1909	0.0140	0.2049		914.1759	914.1759	0.0226	0.0741	936.8306

3.4 Building Construction - 2023

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	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Summer

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

3.4 Building Construction - 2023

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	0.0344	0.9434	0.2955	3.5000e-003	0.1101	6.1500e-003	0.1163	0.0317	5.8900e-003	0.0376		368.2700	368.2700	1.7100e-003	0.0524	383.9170
Worker	0.3059	0.2208	2.2178	5.1000e-003	0.6003	3.6600e-003	0.6040	0.1592	3.3800e-003	0.1626		521.5051	521.5051	0.0181	0.0180	527.3108
Total	0.3403	1.1642	2.5133	8.6000e-003	0.7105	9.8100e-003	0.7203	0.1909	9.2700e-003	0.2002		889.7750	889.7750	0.0198	0.0703	911.2278

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	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Summer

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

3.4 Building Construction - 2023

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	0.0344	0.9434	0.2955	3.5000e-003	0.1101	6.1500e-003	0.1163	0.0317	5.8900e-003	0.0376		368.2700	368.2700	1.7100e-003	0.0524	383.9170
Worker	0.3059	0.2208	2.2178	5.1000e-003	0.6003	3.6600e-003	0.6040	0.1592	3.3800e-003	0.1626		521.5051	521.5051	0.0181	0.0180	527.3108
Total	0.3403	1.1642	2.5133	8.6000e-003	0.7105	9.8100e-003	0.7203	0.1909	9.2700e-003	0.2002		889.7750	889.7750	0.0198	0.0703	911.2278

3.5 Architectural Coating - 2023

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	23.7017					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	23.8934	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Summer

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

3.5 Architectural Coating - 2023

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	0.0586	0.0423	0.4247	9.8000e-004	0.1150	7.0000e-004	0.1157	0.0305	6.5000e-004	0.0311		99.8627	99.8627	3.4700e-003	3.4400e-003	100.9744
Total	0.0586	0.0423	0.4247	9.8000e-004	0.1150	7.0000e-004	0.1157	0.0305	6.5000e-004	0.0311		99.8627	99.8627	3.4700e-003	3.4400e-003	100.9744

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	23.7017					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	23.8934	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Summer

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

3.5 Architectural Coating - 2023

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	0.0586	0.0423	0.4247	9.8000e-004	0.1150	7.0000e-004	0.1157	0.0305	6.5000e-004	0.0311		99.8627	99.8627	3.4700e-003	3.4400e-003	100.9744
Total	0.0586	0.0423	0.4247	9.8000e-004	0.1150	7.0000e-004	0.1157	0.0305	6.5000e-004	0.0311		99.8627	99.8627	3.4700e-003	3.4400e-003	100.9744

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Summer

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

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Summer

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	2.4483	1.0000e-004	0.0115	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0246	0.0246	6.0000e-005		0.0262
Unmitigated	2.4483	1.0000e-004	0.0115	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0246	0.0246	6.0000e-005		0.0262

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Summer

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

6.2 Area by SubCategory

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	0.0397					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0600e-003	1.0000e-004	0.0115	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0246	0.0246	6.0000e-005		0.0262
Total	2.4482	1.0000e-004	0.0115	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0246	0.0246	6.0000e-005		0.0262

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0397					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0600e-003	1.0000e-004	0.0115	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0246	0.0246	6.0000e-005		0.0262
Total	2.4482	1.0000e-004	0.0115	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0246	0.0246	6.0000e-005		0.0262

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Wood Ranch Cannabis Cultivation Project AQ - Humboldt County, Summer

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

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	1485	75	0.73	Diesel
Emergency Generator	1	0	2600	429	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

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 - Diesel (300 - 600 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Emergency Generator - Diesel (75 - 100 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

11.0 Vegetation

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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

**Wood Ranch Cannabis Cultivation Project GHG
Humboldt County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	112.50	1000sqft	2.85	112,500.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	103
Climate Zone	1			Operational Year	2030
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project is in Humboldt County

Land Use - 40x 2,500 sf of greenhouses and 12,500 sf of dry barn =112,500 square feet on 2.85 acres

Construction Phase - Demolition and paving phases were removed. No structures would be demolished, and no improved flooring would occur. Greenhouses would not preclude the agricultural use of the site with paving

Off-road Equipment - Default equipment

Demolition - no demolition

Grading - site assumed to be balanced

Architectural Coating -

Vehicle Trips - Using harvest daily number of trips: 8 daily trips/112.5 ksf = 0.071 (maximum scenario for trips, regular operation = 4 trips per day). Assuming all worker trips, 100% primary and 100% C-W

Area Coating - Assuming only the barn would be painted (12,500 square feet, 75% interior, and 25% exterior based on the CalEEMod Appendix Calcs)

Water And Wastewater - Based on square footage of cultivation area, water demand factor for mixed-light greenhouses is 0.07 gallons/day/square foot

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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

Solid Waste - Changed annual rate based on four cubic yards of waste per week

Operational Off-Road Equipment -

Fleet Mix - Assuming all trips are with LD vehicles since trips are all workers

Stationary Sources - Emergency Generators and Fire Pumps - Two generators, one 70 kVA (56 kW, 75 HP) and one 400 kVA (320 kW, 429). 75 HP generator runs 270 hours/month from 5/1-10/15 (1,485 annual hours). 429 HP generator runs 400 hours/month from 10/15-5/1 (2,600 annual hours).

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	56250	3125
tblAreaCoating	Area_Nonresidential_Interior	168750	9375
tblFleetMix	HHD	7.9750e-003	0.00
tblFleetMix	LDA	0.50	0.34
tblFleetMix	LDT1	0.06	0.33
tblFleetMix	LDT2	0.20	0.33
tblFleetMix	LHD1	0.04	0.00
tblFleetMix	LHD2	8.4380e-003	0.00
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	2.6970e-003	0.00
tblFleetMix	MHD	5.9360e-003	0.00
tblFleetMix	OBUS	1.0900e-003	0.00
tblFleetMix	SBUS	1.3360e-003	0.00
tblFleetMix	UBUS	2.0500e-004	0.00
tblLandUse	LotAcreage	2.58	2.85
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	105.75	0.20
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	429.00

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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

tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	75.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	2,600.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	1,485.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.74	0.07
tblVehicleTrips	SU_TR	1.74	0.07
tblVehicleTrips	WD_TR	1.74	0.07
tblWater	IndoorWaterUseRate	26,015,625.00	3,288,285.00

2.0 Emissions Summary

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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	0.0702	0.5228	0.5262	1.0500e-003	0.0428	0.0232	0.0660	0.0157	0.0221	0.0378	0.0000	90.4802	90.4802	0.0146	1.9300e-003	91.4205
2023	1.4753	1.2220	1.3876	2.7800e-003	0.0553	0.0515	0.1068	0.0149	0.0493	0.0643	0.0000	238.2814	238.2814	0.0338	5.3300e-003	240.7141
Maximum	1.4753	1.2220	1.3876	2.7800e-003	0.0553	0.0515	0.1068	0.0157	0.0493	0.0643	0.0000	238.2814	238.2814	0.0338	5.3300e-003	240.7141

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	0.0702	0.5228	0.5262	1.0500e-003	0.0428	0.0232	0.0660	0.0157	0.0221	0.0378	0.0000	90.4801	90.4801	0.0146	1.9300e-003	91.4205
2023	1.4753	1.2220	1.3876	2.7800e-003	0.0553	0.0515	0.1068	0.0149	0.0493	0.0643	0.0000	238.2812	238.2812	0.0338	5.3300e-003	240.7139
Maximum	1.4753	1.2220	1.3876	2.7800e-003	0.0553	0.0515	0.1068	0.0157	0.0493	0.0643	0.0000	238.2812	238.2812	0.0338	5.3300e-003	240.7139

Wood Ranch Cannabis Cultivation Project GHG - Humboldt 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
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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-3-2022	1-2-2023	0.6019	0.6019
2	1-3-2023	4-2-2023	0.5461	0.5461
3	4-3-2023	7-2-2023	0.5474	0.5474
4	7-3-2023	9-30-2023	1.5883	1.5883
		Highest	1.5883	1.5883

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	0.4467	1.0000e-005	1.0300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0100e-003	2.0100e-003	1.0000e-005	0.0000	2.1400e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	2.7000e-003	3.5100e-003	0.0398	1.2000e-004	0.0150	6.0000e-005	0.0151	4.0000e-003	6.0000e-005	4.0600e-003	0.0000	11.3159	11.3159	2.7000e-004	3.1000e-004	11.4144
Stationary	1.0065	2.8560	2.6652	4.8400e-003		0.1481	0.1481		0.1481	0.1481	0.0000	467.1525	467.1525	0.0655	0.0000	468.7899
Waste						0.0000	0.0000		0.0000	0.0000	0.0406	0.0000	0.0406	2.4000e-003	0.0000	0.1006
Water						0.0000	0.0000		0.0000	0.0000	1.0432	1.6463	2.6895	0.1074	2.5600e-003	6.1384
Total	1.4559	2.8595	2.7061	4.9600e-003	0.0150	0.1481	0.1632	4.0000e-003	0.1481	0.1521	1.0838	480.1166	481.2005	0.1756	2.8700e-003	486.4454

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4467	1.0000e-005	1.0300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0100e-003	2.0100e-003	1.0000e-005	0.0000	2.1400e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	2.7000e-003	3.5100e-003	0.0398	1.2000e-004	0.0150	6.0000e-005	0.0151	4.0000e-003	6.0000e-005	4.0600e-003	0.0000	11.3159	11.3159	2.7000e-004	3.1000e-004	11.4144
Stationary	1.0065	2.8560	2.6652	4.8400e-003		0.1481	0.1481		0.1481	0.1481	0.0000	467.1525	467.1525	0.0655	0.0000	468.7899
Waste						0.0000	0.0000		0.0000	0.0000	0.0406	0.0000	0.0406	2.4000e-003	0.0000	0.1006
Water						0.0000	0.0000		0.0000	0.0000	1.0432	1.6463	2.6895	0.1074	2.5600e-003	6.1384
Total	1.4559	2.8595	2.7061	4.9600e-003	0.0150	0.1481	0.1632	4.0000e-003	0.1481	0.1521	1.0838	480.1166	481.2005	0.1756	2.8700e-003	486.4454

	ROG	NOx	CO	SO2	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	10/3/2022	10/5/2022	5	3	
2	Grading	Grading	10/6/2022	10/13/2022	5	6	

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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

3	Building Construction	Building Construction	10/14/2022	8/17/2023	5	220
4	Architectural Coating	Architectural Coating	8/18/2023	8/31/2023	5	10

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 168,750; Non-Residential Outdoor: 56,250; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
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	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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

Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	47.00	18.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0700e-003	0.0235	0.0151	4.0000e-005		8.9000e-004	8.9000e-004		8.2000e-004	8.2000e-004	0.0000	3.2321	3.2321	1.0500e-003	0.0000	3.2582
Total	2.0700e-003	0.0235	0.0151	4.0000e-005	2.3900e-003	8.9000e-004	3.2800e-003	2.6000e-004	8.2000e-004	1.0800e-003	0.0000	3.2321	3.2321	1.0500e-003	0.0000	3.2582

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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

3.2 Site Preparation - 2022

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	9.0000e-005	7.0000e-005	6.4000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1238	0.1238	0.0000	0.0000	0.1254
Total	9.0000e-005	7.0000e-005	6.4000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1238	0.1238	0.0000	0.0000	0.1254

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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0700e-003	0.0235	0.0151	4.0000e-005		8.9000e-004	8.9000e-004		8.2000e-004	8.2000e-004	0.0000	3.2321	3.2321	1.0500e-003	0.0000	3.2582
Total	2.0700e-003	0.0235	0.0151	4.0000e-005	2.3900e-003	8.9000e-004	3.2800e-003	2.6000e-004	8.2000e-004	1.0800e-003	0.0000	3.2321	3.2321	1.0500e-003	0.0000	3.2582

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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

3.2 Site Preparation - 2022

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	9.0000e-005	7.0000e-005	6.4000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1238	0.1238	0.0000	0.0000	0.1254
Total	9.0000e-005	7.0000e-005	6.4000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1238	0.1238	0.0000	0.0000	0.1254

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					0.0213	0.0000	0.0213	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6200e-003	0.0510	0.0277	6.0000e-005		2.2300e-003	2.2300e-003		2.0500e-003	2.0500e-003	0.0000	5.4308	5.4308	1.7600e-003	0.0000	5.4747
Total	4.6200e-003	0.0510	0.0277	6.0000e-005	0.0213	2.2300e-003	0.0235	0.0103	2.0500e-003	0.0123	0.0000	5.4308	5.4308	1.7600e-003	0.0000	5.4747

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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

3.3 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.7000e-004	1.5900e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3095	0.3095	1.0000e-005	1.0000e-005	0.3134
Total	2.2000e-004	1.7000e-004	1.5900e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3095	0.3095	1.0000e-005	1.0000e-005	0.3134

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					0.0213	0.0000	0.0213	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6200e-003	0.0510	0.0277	6.0000e-005		2.2300e-003	2.2300e-003		2.0500e-003	2.0500e-003	0.0000	5.4308	5.4308	1.7600e-003	0.0000	5.4747
Total	4.6200e-003	0.0510	0.0277	6.0000e-005	0.0213	2.2300e-003	0.0235	0.0103	2.0500e-003	0.0123	0.0000	5.4308	5.4308	1.7600e-003	0.0000	5.4747

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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

3.3 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.7000e-004	1.5900e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3095	0.3095	1.0000e-005	1.0000e-005	0.3134
Total	2.2000e-004	1.7000e-004	1.5900e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3095	0.3095	1.0000e-005	1.0000e-005	0.3134

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	0.0520	0.4089	0.4019	7.0000e-004		0.0197	0.0197		0.0189	0.0189	0.0000	58.1504	58.1504	0.0112	0.0000	58.4309
Total	0.0520	0.4089	0.4019	7.0000e-004		0.0197	0.0197		0.0189	0.0189	0.0000	58.1504	58.1504	0.0112	0.0000	58.4309

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3800e-003	0.0316	9.3700e-003	1.0000e-004	2.9300e-003	3.0000e-004	3.2300e-003	8.5000e-004	2.9000e-004	1.1400e-003	0.0000	9.6572	9.6572	6.0000e-005	1.3900e-003	10.0715
Worker	9.8300e-003	7.5600e-003	0.0700	1.5000e-004	0.0158	1.1000e-004	0.0159	4.2000e-003	1.0000e-004	4.3100e-003	0.0000	13.5764	13.5764	5.3000e-004	5.3000e-004	13.7465
Total	0.0112	0.0392	0.0793	2.5000e-004	0.0187	4.1000e-004	0.0191	5.0500e-003	3.9000e-004	5.4500e-003	0.0000	23.2336	23.2336	5.9000e-004	1.9200e-003	23.8180

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	0.0520	0.4089	0.4019	7.0000e-004		0.0197	0.0197		0.0189	0.0189	0.0000	58.1504	58.1504	0.0112	0.0000	58.4308
Total	0.0520	0.4089	0.4019	7.0000e-004		0.0197	0.0197		0.0189	0.0189	0.0000	58.1504	58.1504	0.0112	0.0000	58.4308

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3800e-003	0.0316	9.3700e-003	1.0000e-004	2.9300e-003	3.0000e-004	3.2300e-003	8.5000e-004	2.9000e-004	1.1400e-003	0.0000	9.6572	9.6572	6.0000e-005	1.3900e-003	10.0715
Worker	9.8300e-003	7.5600e-003	0.0700	1.5000e-004	0.0158	1.1000e-004	0.0159	4.2000e-003	1.0000e-004	4.3100e-003	0.0000	13.5764	13.5764	5.3000e-004	5.3000e-004	13.7465
Total	0.0112	0.0392	0.0793	2.5000e-004	0.0187	4.1000e-004	0.0191	5.0500e-003	3.9000e-004	5.4500e-003	0.0000	23.2336	23.2336	5.9000e-004	1.9200e-003	23.8180

3.4 Building Construction - 2023

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	0.1405	1.1172	1.1656	2.0500e-003		0.0503	0.0503		0.0482	0.0482	0.0000	170.3157	170.3157	0.0322	0.0000	171.1209
Total	0.1405	1.1172	1.1656	2.0500e-003		0.0503	0.0503		0.0482	0.0482	0.0000	170.3157	170.3157	0.0322	0.0000	171.1209

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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

3.4 Building Construction - 2023

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	2.8500e-003	0.0785	0.0247	2.9000e-004	8.5800e-003	5.1000e-004	9.0800e-003	2.4900e-003	4.8000e-004	2.9700e-003	0.0000	27.4145	27.4145	1.3000e-004	3.9000e-003	28.5800
Worker	0.0271	0.0196	0.1861	4.2000e-004	0.0462	3.0000e-004	0.0465	0.0123	2.8000e-004	0.0126	0.0000	38.8213	38.8213	1.3900e-003	1.4100e-003	39.2761
Total	0.0299	0.0981	0.2108	7.1000e-004	0.0548	8.1000e-004	0.0556	0.0148	7.6000e-004	0.0156	0.0000	66.2358	66.2358	1.5200e-003	5.3100e-003	67.8561

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	0.1405	1.1172	1.1656	2.0500e-003		0.0503	0.0503		0.0482	0.0482	0.0000	170.3155	170.3155	0.0322	0.0000	171.1207
Total	0.1405	1.1172	1.1656	2.0500e-003		0.0503	0.0503		0.0482	0.0482	0.0000	170.3155	170.3155	0.0322	0.0000	171.1207

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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

3.4 Building Construction - 2023

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	2.8500e-003	0.0785	0.0247	2.9000e-004	8.5800e-003	5.1000e-004	9.0800e-003	2.4900e-003	4.8000e-004	2.9700e-003	0.0000	27.4145	27.4145	1.3000e-004	3.9000e-003	28.5800
Worker	0.0271	0.0196	0.1861	4.2000e-004	0.0462	3.0000e-004	0.0465	0.0123	2.8000e-004	0.0126	0.0000	38.8213	38.8213	1.3900e-003	1.4100e-003	39.2761
Total	0.0299	0.0981	0.2108	7.1000e-004	0.0548	8.1000e-004	0.0556	0.0148	7.6000e-004	0.0156	0.0000	66.2358	66.2358	1.5200e-003	5.3100e-003	67.8561

3.5 Architectural Coating - 2023

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	1.3036					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
Total	1.3046	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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

3.5 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.3000e-004	2.1700e-003	0.0000	5.4000e-004	0.0000	5.4000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.4533	0.4533	2.0000e-005	2.0000e-005	0.4586
Total	3.2000e-004	2.3000e-004	2.1700e-003	0.0000	5.4000e-004	0.0000	5.4000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.4533	0.4533	2.0000e-005	2.0000e-005	0.4586

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	1.3036					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
Total	1.3046	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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

3.5 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.3000e-004	2.1700e-003	0.0000	5.4000e-004	0.0000	5.4000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.4533	0.4533	2.0000e-005	2.0000e-005	0.4586
Total	3.2000e-004	2.3000e-004	2.1700e-003	0.0000	5.4000e-004	0.0000	5.4000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.4533	0.4533	2.0000e-005	2.0000e-005	0.4586

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Wood Ranch Cannabis Cultivation Project GHG - Humboldt 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					
Mitigated	0.4467	1.0000e-005	1.0300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0100e-003	2.0100e-003	1.0000e-005	0.0000	2.1400e-003
Unmitigated	0.4467	1.0000e-005	1.0300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0100e-003	2.0100e-003	1.0000e-005	0.0000	2.1400e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	7.2400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4394					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-005	1.0000e-005	1.0300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0100e-003	2.0100e-003	1.0000e-005	0.0000	2.1400e-003
Total	0.4467	1.0000e-005	1.0300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0100e-003	2.0100e-003	1.0000e-005	0.0000	2.1400e-003

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	7.2400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4394					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-005	1.0000e-005	1.0300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0100e-003	2.0100e-003	1.0000e-005	0.0000	2.1400e-003
Total	0.4467	1.0000e-005	1.0300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0100e-003	2.0100e-003	1.0000e-005	0.0000	2.1400e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.6895	0.1074	2.5600e-003	6.1384
Unmitigated	2.6895	0.1074	2.5600e-003	6.1384

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	3.28829 / 0	2.6895	0.1074	2.5600e-003	6.1384
Total		2.6895	0.1074	2.5600e-003	6.1384

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	3.28829 / 0	2.6895	0.1074	2.5600e-003	6.1384
Total		2.6895	0.1074	2.5600e-003	6.1384

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0406	2.4000e-003	0.0000	0.1006
Unmitigated	0.0406	2.4000e-003	0.0000	0.1006

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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			
Unrefrigerated Warehouse-No Rail	0.2	0.0406	2.4000e-003	0.0000	0.1006
Total		0.0406	2.4000e-003	0.0000	0.1006

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	0.2	0.0406	2.4000e-003	0.0000	0.1006
Total		0.0406	2.4000e-003	0.0000	0.1006

9.0 Operational Offroad

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

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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

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	0	2600	429	0.73	Diesel
Emergency Generator	1	0	1485	75	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

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 - Diesel (300 - 600 HP)	0.9151	2.5580	2.3336	4.4000e-003		0.1346	0.1346		0.1346	0.1346	0.0000	424.7412	424.7412	0.0596	0.0000	426.2299
Emergency Generator - Diesel (75 - 100 HP)	0.0914	0.2980	0.3316	4.4000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	42.4113	42.4113	5.9500e-003	0.0000	42.5599
Total	1.0065	2.8560	2.6652	4.8400e-003		0.1481	0.1481		0.1481	0.1481	0.0000	467.1525	467.1525	0.0655	0.0000	468.7899

11.0 Vegetation

Wood Ranch Cannabis Cultivation Project GHG - Humboldt County, Annual

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