

Construction Schedule Calculations					
Phase	Default Phase Length	Construction Duration	%	Construction Duration	Revised Phase Length
Demolition	20	445	0.0449	737	33
Site Preparation	10	445	0.0225	737	17
Grading	20	445	0.0449	737	33
Construction	230	445	0.5169	737	381
Paving	20	445	0.0449	737	33
Architectural Coating	20	445	0.0449	737	33

	Total Default Construction Duration	Revised Construction Duration
Start Date	1/6/2025	1/6/2025
End Date	3/27/2026	1/13/2027
Total Days	445	737

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

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Pharmacy/Drugstore with Drive Thru	13.00	1000sqft	0.34	13,000.00	0
Enclosed Parking with Elevator	442.00	Space	0.00	155,391.00	0
Parking Lot	52.00	Space	0.00	0.00	0
Apartments Mid Rise	314.00	Dwelling Unit	5.86	346,766.00	898
Strip Mall	14.20	1000sqft	0.00	14,157.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	63
Climate Zone	5	Operational Year	2025		
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 - Consistent with Memo's model.
- Land Use - Consistent with the Memo's model.
- Construction Phase - See comment on "Unsubstantiated Changes to Individual Construction Phase Lengths".
- Off-road Equipment - Consistent with Memo's model
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Off-road Equipment - Consistent with Memo's model.

Trips and VMT -

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Consistent with Memo's model.

Woodstoves -

Water And Wastewater -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	33.00
tblConstructionPhase	NumDays	10.00	17.00
tblConstructionPhase	NumDays	20.00	33.00
tblConstructionPhase	NumDays	230.00	381.00
tblConstructionPhase	NumDays	20.00	33.00
tblConstructionPhase	NumDays	20.00	33.00
tblConstructionPhase	PhaseEndDate	1/31/2025	2/19/2025
tblConstructionPhase	PhaseEndDate	2/14/2025	3/14/2025
tblConstructionPhase	PhaseEndDate	3/14/2025	4/30/2025
tblConstructionPhase	PhaseEndDate	1/30/2026	10/15/2026
tblConstructionPhase	PhaseEndDate	2/27/2026	12/1/2026
tblConstructionPhase	PhaseEndDate	3/27/2026	1/15/2027
tblConstructionPhase	PhaseStartDate	2/1/2025	2/20/2025
tblConstructionPhase	PhaseStartDate	2/15/2025	3/15/2025
tblConstructionPhase	PhaseStartDate	3/15/2025	5/1/2025
tblConstructionPhase	PhaseStartDate	1/31/2026	10/16/2026
tblConstructionPhase	PhaseStartDate	2/28/2026	12/2/2026
tblLandUse	LandUseSquareFeet	176,800.00	155,391.00

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tblLandUse	LandUseSquareFeet	20,800.00	0.00
tblLandUse	LandUseSquareFeet	314,000.00	346,766.00
tblLandUse	LandUseSquareFeet	14,200.00	14,157.00
tblLandUse	LotAcreage	0.30	0.34
tblLandUse	LotAcreage	3.98	0.00
tblLandUse	LotAcreage	0.47	0.00
tblLandUse	LotAcreage	8.26	5.86
tblLandUse	LotAcreage	0.33	0.00
tblOffRoadEquipment	HorsePower	78.00	37.00
tblOffRoadEquipment	HorsePower	81.00	33.00
tblOffRoadEquipment	HorsePower	231.00	367.00
tblOffRoadEquipment	HorsePower	158.00	36.00
tblOffRoadEquipment	HorsePower	158.00	36.00
tblOffRoadEquipment	HorsePower	89.00	62.00
tblOffRoadEquipment	HorsePower	84.00	14.00
tblOffRoadEquipment	HorsePower	187.00	148.00
tblOffRoadEquipment	HorsePower	130.00	81.00
tblOffRoadEquipment	HorsePower	132.00	89.00
tblOffRoadEquipment	HorsePower	80.00	36.00
tblOffRoadEquipment	HorsePower	247.00	367.00
tblOffRoadEquipment	HorsePower	247.00	367.00
tblOffRoadEquipment	HorsePower	247.00	367.00
tblOffRoadEquipment	HorsePower	97.00	84.00
tblOffRoadEquipment	HorsePower	97.00	84.00
tblOffRoadEquipment	HorsePower	97.00	84.00
tblVehicleTrips	ST_TR	4.91	6.40
tblVehicleTrips	ST_TR	114.89	6.40
tblVehicleTrips	ST_TR	42.04	6.40
tblVehicleTrips	SU_TR	4.09	6.40

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tblVehicleTrips	SU_TR	45.57	6.40
tblVehicleTrips	SU_TR	20.43	6.40
tblVehicleTrips	WD_TR	5.44	6.40
tblVehicleTrips	WD_TR	109.16	6.40
tblVehicleTrips	WD_TR	44.32	6.40

2.0 Emissions Summary

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2025	0.2717	2.1398	2.6760	6.2900e-003	0.5690	0.0813	0.6503	0.2152	0.0754	0.2907	0.0000	567.7901	567.7901	0.0950	0.0209	576.3957
2026	1.9620	1.6006	2.2400	5.8200e-003	0.2941	0.0580	0.3522	0.0792	0.0541	0.1333	0.0000	529.0874	529.0874	0.0721	0.0224	537.5686
2027	0.8732	5.2500e-003	0.0121	3.0000e-005	2.6100e-003	1.6000e-004	2.7700e-003	6.9000e-004	1.6000e-004	8.5000e-004	0.0000	2.5387	2.5387	1.1000e-004	4.0000e-005	2.5549
Maximum	1.9620	2.1398	2.6760	6.2900e-003	0.5690	0.0813	0.6503	0.2152	0.0754	0.2907	0.0000	567.7901	567.7901	0.0950	0.0224	576.3957

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					
2025	0.2717	2.1398	2.6760	6.2900e-003	0.5690	0.0813	0.6503	0.2152	0.0754	0.2907	0.0000	567.7898	567.7898	0.0950	0.0209	576.3954
2026	1.9620	1.6006	2.2400	5.8200e-003	0.2941	0.0580	0.3522	0.0792	0.0541	0.1333	0.0000	529.0872	529.0872	0.0721	0.0224	537.5683
2027	0.8732	5.2500e-003	0.0121	3.0000e-005	2.6100e-003	1.6000e-004	2.7700e-003	6.9000e-004	1.6000e-004	8.5000e-004	0.0000	2.5387	2.5387	1.1000e-004	4.0000e-005	2.5549
Maximum	1.9620	2.1398	2.6760	6.2900e-003	0.5690	0.0813	0.6503	0.2152	0.0754	0.2907	0.0000	567.7898	567.7898	0.0950	0.0224	576.3954

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-6-2025	4-5-2025	0.8260	0.8260
2	4-6-2025	7-5-2025	0.5366	0.5366
3	7-6-2025	10-5-2025	0.5271	0.5271
4	10-6-2025	1-5-2026	0.5351	0.5351
5	1-6-2026	4-5-2026	0.5202	0.5202
6	4-6-2026	7-5-2026	0.5181	0.5181
7	7-6-2026	10-5-2026	0.5242	0.5242
8	10-6-2026	1-5-2027	2.2102	2.2102
9	1-6-2027	4-5-2027	0.5705	0.5705
		Highest	2.2102	2.2102

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.5268	0.0436	3.3317	2.1100e-003		0.1556	0.1556		0.1556	0.1556	14.3152	9.6977	24.0129	0.0267	9.4000e-004	24.9596
Energy	0.0150	0.1262	0.0571	8.2000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	364.9326	364.9326	0.0379	6.9700e-003	367.9569
Mobile	0.8381	1.0367	7.7196	0.0166	1.7992	0.0125	1.8117	0.4806	0.0117	0.4923	0.0000	1,569,906.1	1,569,906.1	0.0985	0.0809	1,596,475.4
Waste						0.0000	0.0000		0.0000	0.0000	40.2815	0.0000	40.2815	2.3806	0.0000	99.7958
Water						0.0000	0.0000		0.0000	0.0000	7.1147	15.7947	22.9095	0.7333	0.0176	46.4763
Total	3.3789	1.2085	11.1084	0.0195	1.7992	0.1784	1.9777	0.4806	0.1776	0.6582	61.7114	1,960,331.1	2,022,042.6	3.2770	0.1064	2,135,663.9

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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	2.5268	0.0436	3.3317	2.1100e-003		0.1556	0.1556		0.1556	0.1556	14.3152	9.8977	24.0129	0.0267	9.4000e-004	24.9596
Energy	0.0150	0.1282	0.0571	8.2000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	364.9326	364.9326	0.0379	6.9700e-003	367.9569
Mobile	0.8381	1.0367	7.7196	0.0166	1.7992	0.0125	1.8117	0.4806	0.0117	0.4923	0.0000	1,569.9061	1,569.9061	0.0985	0.0809	1,596.4754
Waste						0.0000	0.0000		0.0000	0.0000	40.2815	0.0000	40.2815	2.3806	0.0000	99.7958
Water						0.0000	0.0000		0.0000	0.0000	7.1147	15.7947	22.9095	0.7333	0.0176	48.4763
Total	3.3799	1.2085	11.1084	0.0195	1.7992	0.1784	1.9777	0.4806	0.1776	0.6582	61.7114	1,960.3311	2,022.0426	3.2770	0.1064	2,135.6639

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/6/2025	2/19/2025	5	33	
2	Site Preparation	Site Preparation	2/20/2025	3/14/2025	5	17	
3	Grading	Grading	3/15/2025	4/30/2025	5	33	

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4	Building Construction	Building Construction	5/1/2025	10/15/2026	5	381
5	Paving	Paving	10/16/2026	12/1/2026	5	33
6	Architectural Coating	Architectural Coating	12/2/2026	1/15/2027	5	33

Acres of Grading (Site Preparation Phase): 25.5

Acres of Grading (Grading Phase): 33

Acres of Paving: 0

Residential Indoor: 702,201; Residential Outdoor: 234,067; Non-Residential Indoor: 40,736; Non-Residential Outdoor: 13,579; Striped Parking Area: 9,323 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	33	0.73
Demolition	Excavators	3	8.00	36	0.38
Demolition	Rubber Tired Dozers	2	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	84	0.37
Grading	Excavators	1	8.00	36	0.38
Grading	Graders	1	8.00	148	0.41
Grading	Rubber Tired Dozers	1	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	84	0.37
Building Construction	Cranes	1	7.00	367	0.29
Building Construction	Forklifts	3	8.00	82	0.20
Building Construction	Generator Sets	1	8.00	14	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	84	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	81	0.42
Paving	Paving Equipment	2	8.00	89	0.36
Paving	Rollers	2	8.00	36	0.38

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Architectural Coating	Air Compressors	1	6.00	37	0.48
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Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	310.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	300.00	63.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	60.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2025

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					0.0335	0.0000	0.0335	5.0800e-003	0.0000	5.0800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0398	0.3543	0.3333	5.4000e-004		0.0149	0.0149		0.0137	0.0137	0.0000	46.4454	46.4454	0.0142	0.0000	46.7992
Total	0.0398	0.3543	0.3333	5.4000e-004	0.0335	0.0149	0.0484	5.0800e-003	0.0137	0.0188	0.0000	46.4454	46.4454	0.0142	0.0000	46.7992

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3.2 Demolition - 2025

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	3.2000e-004	0.0204	4.6500e-003	9.0000e-005	2.6300e-003	1.7000e-004	2.8000e-003	7.2000e-004	1.7000e-004	8.9000e-004	0.0000	8.7360	8.7360	1.9000e-004	1.3800e-003	9.1523
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	3.6000e-004	4.8400e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.4687	1.4687	4.0000e-005	4.0000e-005	1.4808
Total	8.9000e-004	0.0208	9.4900e-003	1.1000e-004	4.5900e-003	1.8000e-004	4.7700e-003	1.2400e-003	1.8000e-004	1.4200e-003	0.0000	10.2047	10.2047	2.3000e-004	1.4200e-003	10.6331

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					0.0335	0.0000	0.0335	5.0800e-003	0.0000	5.0800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0398	0.3543	0.3333	5.4000e-004		0.0149	0.0149		0.0137	0.0137	0.0000	46.4453	46.4453	0.0142	0.0000	46.7991
Total	0.0398	0.3543	0.3333	5.4000e-004	0.0335	0.0149	0.0484	5.0800e-003	0.0137	0.0188	0.0000	46.4453	46.4453	0.0142	0.0000	46.7991

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3.2 Demolition - 2025

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	3.2000e-004	0.0204	4.6500e-003	9.0000e-005	2.6300e-003	1.7000e-004	2.8000e-003	7.2000e-004	1.7000e-004	8.9000e-004	0.0000	8.7360	8.7360	1.9000e-004	1.3800e-003	9.1523
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	3.6000e-004	4.8400e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.4687	1.4687	4.0000e-005	4.0000e-005	1.4808
Total	8.9000e-004	0.0208	9.4900e-003	1.1000e-004	4.5900e-003	1.8000e-004	4.7700e-003	1.2400e-003	1.8000e-004	1.4200e-003	0.0000	10.2047	10.2047	2.3000e-004	1.4200e-003	10.6331

3.3 Site Preparation - 2025

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					0.1671	0.0000	0.1671	0.0859	0.0000	0.0859	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0281	0.2618	0.2610	4.2000e-004		0.0115	0.0115		0.0106	0.0106	0.0000	36.7630	36.7630	0.0119	0.0000	37.0602
Total	0.0281	0.2618	0.2610	4.2000e-004	0.1671	0.0115	0.1786	0.0859	0.0106	0.0965	0.0000	36.7630	36.7630	0.0119	0.0000	37.0602

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3.3 Site Preparation - 2025

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	3.5000e-004	2.2000e-004	2.9900e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9079	0.9079	2.0000e-005	2.0000e-005	0.9154
Total	3.5000e-004	2.2000e-004	2.9900e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9079	0.9079	2.0000e-005	2.0000e-005	0.9154

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					0.1671	0.0000	0.1671	0.0859	0.0000	0.0859	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0281	0.2618	0.2610	4.2000e-004		0.0115	0.0115		0.0106	0.0106	0.0000	36.7629	36.7629	0.0119	0.0000	37.0602
Total	0.0281	0.2618	0.2610	4.2000e-004	0.1671	0.0115	0.1786	0.0859	0.0106	0.0965	0.0000	36.7629	36.7629	0.0119	0.0000	37.0602

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

3.3 Site Preparation - 2025

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	3.5000e-004	2.2000e-004	2.9900e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9079	0.9079	2.0000e-005	2.0000e-005	0.9154
Total	3.5000e-004	2.2000e-004	2.9900e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9079	0.9079	2.0000e-005	2.0000e-005	0.9154

3.4 Grading - 2025

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					0.1169	0.0000	0.1169	0.0565	0.0000	0.0565	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0288	0.2639	0.2991	4.5000e-004		0.0119	0.0119		0.0109	0.0109	0.0000	39.8778	39.8778	0.0129	0.0000	40.2002
Total	0.0288	0.2639	0.2991	4.5000e-004	0.1169	0.0119	0.1287	0.0565	0.0109	0.0674	0.0000	39.8778	39.8778	0.0129	0.0000	40.2002

Freemont Hub Mixed Use Project - Alameda County, Annual

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

3.4 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	3.6000e-004	4.8400e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.4687	1.4687	4.0000e-005	4.0000e-005	1.4808
Total	5.7000e-004	3.6000e-004	4.8400e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.4687	1.4687	4.0000e-005	4.0000e-005	1.4808

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					0.1169	0.0000	0.1169	0.0565	0.0000	0.0565	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0288	0.2639	0.2991	4.5000e-004		0.0119	0.0119		0.0109	0.0109	0.0000	39.8777	39.8777	0.0129	0.0000	40.2002
Total	0.0288	0.2639	0.2991	4.5000e-004	0.1169	0.0119	0.1287	0.0565	0.0109	0.0674	0.0000	39.8777	39.8777	0.0129	0.0000	40.2002

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

3.4 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	3.6000e-004	4.8400e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.4687	1.4687	4.0000e-005	4.0000e-005	1.4808
Total	5.7000e-004	3.6000e-004	4.8400e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.4687	1.4687	4.0000e-005	4.0000e-005	1.4808

3.5 Building Construction - 2025

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	0.1076	0.9588	1.1816	2.0400e-003		0.0404	0.0404		0.0377	0.0377	0.0000	173.2283	173.2283	0.0504	0.0000	174.4878
Total	0.1076	0.9588	1.1816	2.0400e-003		0.0404	0.0404		0.0377	0.0377	0.0000	173.2283	173.2283	0.0504	0.0000	174.4878

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

3.5 Building Construction - 2025

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	5.3200e-003	0.2418	0.0704	1.0600e-003	0.0362	1.4700e-003	0.0377	0.0105	1.4000e-003	0.0119	0.0000	103.1195	103.1195	1.4500e-003	0.0155	107.7618
Worker	0.0603	0.0379	0.5133	1.6500e-003	0.2075	9.9000e-004	0.2085	0.0552	9.1000e-004	0.0561	0.0000	155.7748	155.7748	3.9800e-003	3.9700e-003	157.0572
Total	0.0656	0.2797	0.5836	2.7100e-003	0.2438	2.4600e-003	0.2462	0.0657	2.3100e-003	0.0680	0.0000	258.8943	258.8943	5.4300e-003	0.0194	264.8190

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	0.1076	0.9588	1.1816	2.0400e-003		0.0404	0.0404		0.0377	0.0377	0.0000	173.2281	173.2281	0.0504	0.0000	174.4876
Total	0.1076	0.9588	1.1816	2.0400e-003		0.0404	0.0404		0.0377	0.0377	0.0000	173.2281	173.2281	0.0504	0.0000	174.4876

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

3.5 Building Construction - 2025

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	5.3200e-003	0.2418	0.0704	1.0500e-003	0.0362	1.4700e-003	0.0377	0.0105	1.4000e-003	0.0119	0.0000	103.1195	103.1195	1.4500e-003	0.0155	107.7618
Worker	0.0603	0.0379	0.5133	1.6500e-003	0.2076	9.9000e-004	0.2085	0.0552	9.1000e-004	0.0561	0.0000	155.7748	155.7748	3.9800e-003	3.9700e-003	157.0572
Total	0.0656	0.2797	0.5836	2.7100e-003	0.2438	2.4600e-003	0.2462	0.0657	2.3100e-003	0.0680	0.0000	258.8943	258.8943	5.4300e-003	0.0194	264.8190

3.5 Building Construction - 2026

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	0.1267	1.1287	1.3909	2.4000e-003		0.0476	0.0476		0.0444	0.0444	0.0000	203.9144	203.9144	0.0593	0.0000	205.3971
Total	0.1267	1.1287	1.3909	2.4000e-003		0.0476	0.0476		0.0444	0.0444	0.0000	203.9144	203.9144	0.0593	0.0000	205.3971

Freemont Hub Mixed Use Project - Alameda County, Annual

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

3.5 Building Construction - 2026

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	6.1500e-003	0.2837	0.0817	1.2300e-003	0.0426	1.7200e-003	0.0444	0.0123	1.6500e-003	0.0140	0.0000	119.1605	119.1605	1.7100e-003	0.0179	124.5268
Worker	0.0669	0.0406	0.5712	1.8800e-003	0.2443	1.1100e-003	0.2454	0.0650	1.0200e-003	0.0660	0.0000	179.1683	179.1683	4.2800e-003	4.4200e-003	180.5916
Total	0.0731	0.3243	0.6529	3.1100e-003	0.2870	2.8300e-003	0.2898	0.0773	2.6700e-003	0.0800	0.0000	298.3289	298.3289	5.9900e-003	0.0223	305.1184

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	0.1267	1.1287	1.3909	2.4000e-003		0.0476	0.0476		0.0444	0.0444	0.0000	203.9142	203.9142	0.0593	0.0000	205.3968
Total	0.1267	1.1287	1.3909	2.4000e-003		0.0476	0.0476		0.0444	0.0444	0.0000	203.9142	203.9142	0.0593	0.0000	205.3968

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

3.5 Building Construction - 2026

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	6.1500e-003	0.2837	0.0817	1.2300e-003	0.0426	1.7200e-003	0.0444	0.0123	1.6500e-003	0.0140	0.0000	119.1605	119.1605	1.7100e-003	0.0179	124.5268
Worker	0.0669	0.0406	0.5712	1.8800e-003	0.2443	1.1100e-003	0.2454	0.0650	1.0200e-003	0.0660	0.0000	179.1683	179.1683	4.2800e-003	4.4200e-003	180.5916
Total	0.0731	0.3243	0.6529	3.1100e-003	0.2870	2.8300e-003	0.2898	0.0773	2.6700e-003	0.0800	0.0000	298.3289	298.3289	5.9900e-003	0.0223	305.1184

3.6 Paving - 2026

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	0.0153	0.1367	0.1670	2.3000e-004		7.3000e-003	7.3000e-003		6.7200e-003	6.7200e-003	0.0000	20.2499	20.2499	6.5500e-003	0.0000	20.4136
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0153	0.1367	0.1670	2.3000e-004		7.3000e-003	7.3000e-003		6.7200e-003	6.7200e-003	0.0000	20.2499	20.2499	6.5500e-003	0.0000	20.4136

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

3.6 Paving - 2026

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.3000e-004	4.5800e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.4351	1.4351	3.0000e-005	4.0000e-005	1.4465	
Total	5.4000e-004	3.3000e-004	4.5800e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.4351	1.4351	3.0000e-005	4.0000e-005	1.4465	

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	0.0153	0.1367	0.1670	2.3000e-004		7.3000e-003	7.3000e-003		6.7200e-003	6.7200e-003	0.0000	20.2499	20.2499	6.5500e-003	0.0000	20.4136	
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Total	0.0153	0.1367	0.1670	2.3000e-004		7.3000e-003	7.3000e-003		6.7200e-003	6.7200e-003	0.0000	20.2499	20.2499	6.5500e-003	0.0000	20.4136	

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

3.6 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.3000e-004	4.5800e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.4351	1.4351	3.0000e-005	4.0000e-005	1.4465
Total	5.4000e-004	3.3000e-004	4.5800e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.4351	1.4351	3.0000e-005	4.0000e-005	1.4465

3.7 Architectural Coating - 2026

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	1.7434					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7000e-003	9.7000e-003	0.0125	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	1.3323	1.3323	1.4000e-004	0.0000	1.3357
Total	1.7451	9.7000e-003	0.0125	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	1.3323	1.3323	1.4000e-004	0.0000	1.3357

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

3.7 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4300e-003	8.7000e-004	0.0122	4.0000e-005	5.2200e-003	2.0000e-005	5.2400e-003	1.3900e-003	2.0000e-005	1.4100e-003	0.0000	3.8269	3.8269	9.0000e-005	9.0000e-005	3.8573
Total	1.4300e-003	8.7000e-004	0.0122	4.0000e-005	5.2200e-003	2.0000e-005	5.2400e-003	1.3900e-003	2.0000e-005	1.4100e-003	0.0000	3.8269	3.8269	9.0000e-005	9.0000e-005	3.8573

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	1.7434					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7000e-003	9.7000e-003	0.0125	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	1.3323	1.3323	1.4000e-004	0.0000	1.3357
Total	1.7451	9.7000e-003	0.0125	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	1.3323	1.3323	1.4000e-004	0.0000	1.3357

Freemont Hub Mixed Use Project - Alameda County, Annual

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

3.7 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4300e-003	8.7000e-004	0.0122	4.0000e-005	5.2200e-003	2.0000e-005	5.2400e-003	1.3900e-003	2.0000e-005	1.4100e-003	0.0000	3.8269	3.8269	9.0000e-005	9.0000e-005	3.8573
Total	1.4300e-003	8.7000e-004	0.0122	4.0000e-005	5.2200e-003	2.0000e-005	5.2400e-003	1.3900e-003	2.0000e-005	1.4100e-003	0.0000	3.8269	3.8269	9.0000e-005	9.0000e-005	3.8573

3.7 Architectural Coating - 2027

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					
Archil. Coating	0.8717					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5000e-004	4.8500e-003	6.2700e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.6661	0.6661	7.0000e-005	0.0000	0.6679
Total	0.8725	4.8500e-003	6.2700e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.6661	0.6661	7.0000e-005	0.0000	0.6679

Freemont Hub Mixed Use Project - Alameda County, Annual

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

3.7 Architectural Coating - 2027

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	6.8000e-004	4.0000e-004	5.8000e-003	2.0000e-005	2.6100e-003	1.0000e-005	2.6200e-003	6.9000e-004	1.0000e-005	7.0000e-004	0.0000	1.8726	1.8726	4.0000e-005	4.0000e-005	1.8870
Total	6.8000e-004	4.0000e-004	5.8000e-003	2.0000e-005	2.6100e-003	1.0000e-005	2.6200e-003	6.9000e-004	1.0000e-005	7.0000e-004	0.0000	1.8726	1.8726	4.0000e-005	4.0000e-005	1.8870

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8717					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5000e-004	4.8500e-003	6.2700e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.6661	0.6661	7.0000e-005	0.0000	0.6679
Total	0.8725	4.8500e-003	6.2700e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.6661	0.6661	7.0000e-005	0.0000	0.6679

Freemont Hub Mixed Use Project - Alameda County, Annual

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

3.7 Architectural Coating - 2027

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	6.8000e-004	4.0000e-004	5.8000e-003	2.0000e-005	2.6100e-003	1.0000e-005	2.6200e-003	6.9000e-004	1.0000e-005	7.0000e-004	0.0000	1.8726	1.8726	4.0000e-005	4.0000e-005	1.8870
Total	6.8000e-004	4.0000e-004	5.8000e-003	2.0000e-005	2.6100e-003	1.0000e-005	2.6200e-003	6.9000e-004	1.0000e-005	7.0000e-004	0.0000	1.8726	1.8726	4.0000e-005	4.0000e-005	1.8870

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Freemont Hub Mixed Use Project - Alameda 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	0.8381	1.0367	7.7196	0.0166	1.7992	0.0125	1.8117	0.4806	0.0117	0.4923	0.0000	1,569,906	1,569,906	0.0985	0.0809	1,596,475
Unmitigated	0.8381	1.0367	7.7196	0.0166	1.7992	0.0125	1.8117	0.4806	0.0117	0.4923	0.0000	1,569,906	1,569,906	0.0985	0.0809	1,596,475

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartments Mid Rise	2,009.60	2,009.60	2,009.60	4,641,387	4,641,387
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	83.20	83.20	83.20	94,740	94,740
Strip Mall	90.88	90.88	90.88	139,958	139,958
Total	2,183.68	2,183.68	2,183.68	4,876,085	4,876,085

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	9.50	7.30	7.30	7.50	73.50	19.00	38	13	49
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Freemont Hub Mixed Use Project - Alameda County, Annual

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.570753	0.056481	0.179220	0.111941	0.020784	0.005211	0.013984	0.013033	0.000790	0.000560	0.024477	0.000343	0.002423
Enclosed Parking with Elevator	0.570753	0.056481	0.179220	0.111941	0.020784	0.005211	0.013984	0.013033	0.000790	0.000560	0.024477	0.000343	0.002423
Parking Lot	0.570753	0.056481	0.179220	0.111941	0.020784	0.005211	0.013984	0.013033	0.000790	0.000560	0.024477	0.000343	0.002423
Pharmacy/Drugstore with Drive Thru	0.570753	0.056481	0.179220	0.111941	0.020784	0.005211	0.013984	0.013033	0.000790	0.000560	0.024477	0.000343	0.002423
Strip Mall	0.570753	0.056481	0.179220	0.111941	0.020784	0.005211	0.013984	0.013033	0.000790	0.000560	0.024477	0.000343	0.002423

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	216.8512	216.8512	0.0351	4.2500e-003	218.9955
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	216.8512	216.8512	0.0351	4.2500e-003	218.9955
NaturalGas Mitigated	0.0150	0.1282	0.0571	8.2000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	148.0814	148.0814	2.8400e-003	2.7100e-003	148.9614
NaturalGas Unmitigated	0.0150	0.1282	0.0571	8.2000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	148.0814	148.0814	2.8400e-003	2.7100e-003	148.9614

Freemont Hub Mixed Use Project - Alameda County, Annual

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

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.65111e+006	0.0143	0.1222	0.0520	7.8000e-004		9.8800e-003	9.8800e-003		9.8800e-003	9.8800e-003	0.0000	141.4731	141.4731	2.7100e-003	2.5900e-003	142.3138
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	59280	3.2000e-004	2.9100e-003	2.4400e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.1634	3.1634	6.0000e-005	6.0000e-005	3.1822
Strip Mall	64555.9	3.5000e-004	3.1600e-003	2.6600e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	3.4450	3.4450	7.0000e-005	6.0000e-005	3.4654
Total		0.0150	0.1282	0.0571	8.2000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	148.0814	148.0814	2.8400e-003	2.7100e-003	148.9614

Freemont Hub Mixed Use Project - Alameda County, Annual

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

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.65111e+006	0.0143	0.1222	0.0520	7.8000e-004		9.8800e-003	9.8800e-003		9.8800e-003	9.8800e-003	0.0000	141.4731	141.4731	2.7100e-003	2.5900e-003	142.3138
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	59280	3.2000e-004	2.9100e-003	2.4400e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.1634	3.1634	6.0000e-005	6.0000e-005	3.1822
Strip Mall	64555.9	3.5000e-004	3.1600e-003	2.6600e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	3.4450	3.4450	7.0000e-005	6.0000e-005	3.4654
Total		0.0150	0.1282	0.0571	8.2000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	148.0814	148.0814	2.8400e-003	2.7100e-003	148.9614

Freemont Hub Mixed Use Project - Alameda 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			
Apartments Mid Rise	1.22032e+006	112.9086	0.0183	2.2100e-003	114.0251
Enclosed Parking with Elevator	845327	78.2129	0.0127	1.5300e-003	78.9862
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	133120	12.3168	1.9900e-003	2.4000e-004	12.4386
Strip Mall	144968	13.4130	2.1700e-003	2.6000e-004	13.5456
Total		216.8512	0.0351	4.2400e-003	218.9955

Freemont Hub Mixed Use Project - Alameda 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

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.22032e+006	112.9086	0.0183	2.2100e-003	114.0251
Enclosed Parking with Elevator	845327	78.2129	0.0127	1.5300e-003	78.9862
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	133120	12.3168	1.9900e-003	2.4000e-004	12.4386
Strip Mall	144968	13.4130	2.1700e-003	2.6000e-004	13.5456
Total		216.8512	0.0351	4.2400e-003	218.9955

6.0 Area Detail

6.1 Mitigation Measures Area

Freemont Hub Mixed Use Project - Alameda 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	2.5268	0.0436	3.3317	2.1100e-003		0.1556	0.1556		0.1556	0.1556	14.3152	9.6977	24.0129	0.0267	9.4000e-004	24.9596
Unmitigated	2.5268	0.0436	3.3317	2.1100e-003		0.1556	0.1556		0.1556	0.1556	14.3152	9.6977	24.0129	0.0267	9.4000e-004	24.9596

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2615					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4704					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.7245	0.0167	0.9976	1.9900e-003		0.1426	0.1426		0.1426	0.1426	14.3152	5.8799	20.1951	0.0230	9.4000e-004	21.0500
Landscaping	0.0704	0.0269	2.3341	1.2000e-004		0.0129	0.0129		0.0129	0.0129	0.0000	3.8178	3.8178	3.6700e-003	0.0000	3.9095
Total	2.5268	0.0435	3.3317	2.1100e-003		0.1556	0.1556		0.1556	0.1556	14.3152	9.6977	24.0129	0.0267	9.4000e-004	24.9596

Freemont Hub Mixed Use Project - Alameda 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	0.2615					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4704					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.7245	0.0167	0.9976	1.9900e-003		0.1426	0.1426		0.1426	0.1426	14.3152	5.8799	20.1951	0.0230	9.4000e-004	21.0500	
Landscaping	0.0704	0.0269	2.3341	1.2000e-004		0.0129	0.0129		0.0129	0.0129	0.0000	3.8178	3.8178	3.6700e-003	0.0000	3.9095	
Total	2.5268	0.0435	3.3317	2.1100e-003		0.1556	0.1556		0.1556	0.1556	14.3152	9.6977	24.0129	0.0267	9.4000e-004	24.9596	

7.0 Water Detail

7.1 Mitigation Measures Water

Freemont Hub Mixed Use Project - Alameda 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	22.9095	0.7333	0.0176	46.4763
Unmitigated	22.9095	0.7333	0.0176	46.4763

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	20.4584 / 12.8977	20.9096	0.6690	0.0160	42.4088
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	3.915818 / 0.561308	0.9308	0.0300	7.2000e-004	1.8932
Strip Mall	1.05183 / 0.64467	1.0691	0.0344	8.2000e-004	2.1743
Total		22.9095	0.7333	0.0176	46.4763

Freemont Hub Mixed Use Project - Alameda 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			
Apartments Mid Rise	20.4584 / 12.8977	20.9096	0.6690	0.0160	42.4088
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	0.915818 / 0.561308	0.9308	0.0300	7.2000e-004	1.8932
Strip Mall	1.05183 / 0.64467	1.0691	0.0344	8.2000e-004	2.1743
Total		22.9095	0.7333	0.0176	46.4763

8.0 Waste Detail

8.1 Mitigation Measures Waste

Freemont Hub Mixed Use Project - Alameda County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	40.2815	2.3806	0.0000	99.7958
Unmitigated	40.2815	2.3806	0.0000	99.7958

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	144.44	29.3200	1.7328	0.0000	72.6391
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	39.09	7.9349	0.4689	0.0000	19.6584
Strip Mall	14.91	3.0266	0.1789	0.0000	7.4983
Total		40.2815	2.3806	0.0000	99.7958

Freemont Hub Mixed Use Project - Alameda 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

Mitigated

Land Use	Waste Disposed	Total CO2	CH4	N2O	CO2e
	tons	MT/yr			
Apartments Mid Rise	144.44	29.3200	1.7328	0.0000	72.6391
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	39.09	7.9349	0.4689	0.0000	19.6584
Strip Mall	14.91	3.0266	0.1789	0.0000	7.4983
Total		40.2815	2.3806	0.0000	99.7958

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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Freemont Hub Mixed Use Project - Alameda County, Annual

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Freemont Hub Mixed Use Project - Alameda County, Summer

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

Freemont Hub Mixed Use Project
Alameda County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Pharmacy/Drugstore with Drive Thru	13.00	1000sqft	0.34	13,000.00	0
Enclosed Parking with Elevator	442.00	Space	0.00	155,391.00	0
Parking Lot	52.00	Space	0.00	0.00	0
Apartments Mid Rise	314.00	Dwelling Unit	5.86	346,766.00	898
Strip Mall	14.20	1000sqft	0.00	14,157.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	63
Climate Zone	5			Operational Year	2025
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 - Consistent with Memo's model.

Land Use - Consistent with the Memo's model.

Construction Phase - See comment on "Unsubstantiated Changes to Individual Construction Phase Lengths".

Off-road Equipment - Consistent with Memo's model

Off-road Equipment - Consistent with Memo's model.

Off-road Equipment - Consistent with Memo's model.

Off-road Equipment - Consistent with Memo's model.

Off-road Equipment - Consistent with Memo's model.

Freemont Hub Mixed Use Project - Alameda County, Summer

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

Off-road Equipment - Consistent with Memo's model.

Trips and VMT -

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Consistent with Memo's model.

Woodstoves -

Water And Wastewater -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	33.00
tblConstructionPhase	NumDays	10.00	17.00
tblConstructionPhase	NumDays	20.00	33.00
tblConstructionPhase	NumDays	230.00	381.00
tblConstructionPhase	NumDays	20.00	33.00
tblConstructionPhase	NumDays	20.00	33.00
tblConstructionPhase	PhaseEndDate	1/31/2025	2/19/2025
tblConstructionPhase	PhaseEndDate	2/14/2025	3/14/2025
tblConstructionPhase	PhaseEndDate	3/14/2025	4/30/2025
tblConstructionPhase	PhaseEndDate	1/30/2026	10/15/2026
tblConstructionPhase	PhaseEndDate	2/27/2026	12/1/2026
tblConstructionPhase	PhaseEndDate	3/27/2026	1/15/2027
tblConstructionPhase	PhaseStartDate	2/1/2025	2/20/2025
tblConstructionPhase	PhaseStartDate	2/15/2025	3/15/2025
tblConstructionPhase	PhaseStartDate	3/15/2025	5/1/2025
tblConstructionPhase	PhaseStartDate	1/31/2026	10/16/2026
tblConstructionPhase	PhaseStartDate	2/28/2026	12/2/2026
tblLandUse	LandUseSquareFeet	176,800.00	155,391.00

Freemont Hub Mixed Use Project - Alameda County, Summer

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

tblLandUse	LandUseSquareFeet	20,800.00	0.00
tblLandUse	LandUseSquareFeet	314,000.00	346,766.00
tblLandUse	LandUseSquareFeet	14,200.00	14,157.00
tblLandUse	LotAcreage	0.30	0.34
tblLandUse	LotAcreage	3.98	0.00
tblLandUse	LotAcreage	0.47	0.00
tblLandUse	LotAcreage	8.26	5.86
tblLandUse	LotAcreage	0.33	0.00
tblOffRoadEquipment	HorsePower	78.00	37.00
tblOffRoadEquipment	HorsePower	81.00	33.00
tblOffRoadEquipment	HorsePower	231.00	367.00
tblOffRoadEquipment	HorsePower	158.00	36.00
tblOffRoadEquipment	HorsePower	158.00	36.00
tblOffRoadEquipment	HorsePower	89.00	82.00
tblOffRoadEquipment	HorsePower	84.00	14.00
tblOffRoadEquipment	HorsePower	167.00	148.00
tblOffRoadEquipment	HorsePower	130.00	81.00
tblOffRoadEquipment	HorsePower	132.00	89.00
tblOffRoadEquipment	HorsePower	80.00	36.00
tblOffRoadEquipment	HorsePower	247.00	367.00
tblOffRoadEquipment	HorsePower	247.00	367.00
tblOffRoadEquipment	HorsePower	247.00	367.00
tblOffRoadEquipment	HorsePower	97.00	84.00
tblOffRoadEquipment	HorsePower	97.00	84.00
tblOffRoadEquipment	HorsePower	97.00	84.00
tblVehicleTrips	ST_TR	4.91	6.40
tblVehicleTrips	ST_TR	114.89	6.40
tblVehicleTrips	ST_TR	42.04	6.40
tblVehicleTrips	SU_TR	4.09	6.40

Freemont Hub Mixed Use Project - Alameda County, Summer

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

tbVehicleTrips	SU_TR	45.57	6.40
tbVehicleTrips	SU_TR	20.43	6.40
tbVehicleTrips	WD_TR	5.44	6.40
tbVehicleTrips	WD_TR	109.16	6.40
tbVehicleTrips	WD_TR	44.32	6.40

2.0 Emissions Summary

Freemont Hub Mixed Use Project - Alameda 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					
2025	3.3508	30.8201	31.0840	0.0557	19.8049	1.3580	21.1629	10.1417	1.2494	11.3910	0.0000	5,579.6076	5,579.6076	1.5447	0.2405	5,668.7630
2026	158.7800	13.9623	20.2237	0.0548	2.8914	0.4893	3.3808	0.7766	0.4567	1.2333	0.0000	5,507.5081	5,507.5081	0.6954	0.2345	5,594.7632
2027	158.7723	0.9460	2.2677	5.4300e-003	0.4929	0.0293	0.5222	0.1307	0.0291	0.1599	0.0000	534.8986	534.8986	0.0216	8.2800e-003	537.9060
Maximum	158.7800	30.8201	31.0840	0.0557	19.8049	1.3580	21.1629	10.1417	1.2494	11.3910	0.0000	5,579.6076	5,579.6076	1.5447	0.2405	5,668.7630

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					
2025	3.3508	30.8201	31.0840	0.0557	19.8049	1.3580	21.1629	10.1417	1.2494	11.3910	0.0000	5,579.6076	5,579.6076	1.5447	0.2405	5,668.7630
2026	158.7800	13.9623	20.2237	0.0548	2.8914	0.4893	3.3808	0.7766	0.4567	1.2333	0.0000	5,507.5081	5,507.5081	0.6954	0.2345	5,594.7632
2027	158.7723	0.9460	2.2677	5.4300e-003	0.4929	0.0293	0.5222	0.1307	0.0291	0.1599	0.0000	534.8986	534.8986	0.0216	8.2800e-003	537.9060
Maximum	158.7800	30.8201	31.0840	0.0557	19.8049	1.3580	21.1629	10.1417	1.2494	11.3910	0.0000	5,579.6076	5,579.6076	1.5447	0.2405	5,668.7630

Freemont Hub Mixed Use Project - Alameda County, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	139.4075	3.1534	196.5477	0.3301		24.3649	24.3649		24.3649	24.3649	2,628.4457	1,210.4066	3,838.8523	3.6419	0.1858	3,985.2628
Energy	0.0820	0.7026	0.3128	4.4700e-003		0.0567	0.0567		0.0567	0.0567		894.4210	894.4210	0.0171	0.0164	899.7361
Mobile	5.1733	5.2558	41.9631	0.0961	10.2679	0.0689	10.3368	2.7347	0.0643	2.7989		10,025.9031	10,025.9031	0.5540	0.4663	10,178.6990
Total	144.6628	9.1119	238.8236	0.4306	10.2679	24.4905	34.7584	2.7347	24.4858	27.2205	2,628.4457	12,130.7306	14,759.1763	4.2130	0.6685	15,063.6979

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	139.4075	3.1534	196.5477	0.3301		24.3649	24.3649		24.3649	24.3649	2,628.4457	1,210.4066	3,838.8523	3.6419	0.1858	3,985.2628
Energy	0.0820	0.7026	0.3128	4.4700e-003		0.0567	0.0567		0.0567	0.0567		894.4210	894.4210	0.0171	0.0164	899.7361
Mobile	5.1733	5.2558	41.9631	0.0961	10.2679	0.0689	10.3368	2.7347	0.0643	2.7989		10,025.9031	10,025.9031	0.5540	0.4663	10,178.6990
Total	144.6628	9.1119	238.8236	0.4306	10.2679	24.4905	34.7584	2.7347	24.4858	27.2205	2,628.4457	12,130.7306	14,759.1763	4.2130	0.6685	15,063.6979

Freemont Hub Mixed Use Project - Alameda County, Summer

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/6/2025	2/19/2025	5	33	
2	Site Preparation	Site Preparation	2/20/2025	3/14/2025	5	17	
3	Grading	Grading	3/15/2025	4/30/2025	5	33	
4	Building Construction	Building Construction	5/1/2025	10/15/2026	5	381	
5	Paving	Paving	10/16/2026	12/1/2026	5	33	
6	Architectural Coating	Architectural Coating	12/2/2026	1/15/2027	5	33	

Acres of Grading (Site Preparation Phase): 25.5

Acres of Grading (Grading Phase): 33

Acres of Paving: 0

Residential Indoor: 702,201; Residential Outdoor: 234,067; Non-Residential Indoor: 40,736; Non-Residential Outdoor: 13,579; Striped Parking Area: 9,323 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	33	0.73
Demolition	Excavators	3	8.00	36	0.38
Demolition	Rubber Tired Dozers	2	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	84	0.37

Freemont Hub Mixed Use Project - Alameda County, Summer

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

Grading	Excavators	1	8.00	36	0.38
Grading	Graders	1	8.00	148	0.41
Grading	Rubber Tired Dozers	1	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	84	0.37
Building Construction	Cranes	1	7.00	367	0.29
Building Construction	Forklifts	3	8.00	82	0.20
Building Construction	Generator Sets	1	8.00	14	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	84	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	81	0.42
Paving	Paving Equipment	2	8.00	89	0.36
Paving	Rollers	2	8.00	36	0.38
Architectural Coating	Air Compressors	1	6.00	37	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	310.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	300.00	63.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	60.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Freemont Hub Mixed Use Project - Alameda County, Summer

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

3.2 Demolition - 2025

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					2.0314	0.0000	2.0314	0.3076	0.0000	0.3076			0.0000			0.0000
Off-Road	2.4145	21.4739	20.2019	0.0325		0.8998	0.8998		0.8312	0.8312		3,102.8652	3,102.8652	0.9454		3,126.5004
Total	2.4145	21.4739	20.2019	0.0325	2.0314	0.8998	2.9312	0.3076	0.8312	1.1387		3,102.8652	3,102.8652	0.9454		3,126.5004

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	0.0198	1.1902	0.2801	5.4000e-003	0.1646	0.0106	0.1752	0.0451	0.0101	0.0553		583.3520	583.3520	0.0130	0.0922	611.1496
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	0.0365	0.0191	0.3146	1.0100e-003	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		104.9578	104.9578	2.3200e-003	2.3000e-003	105.7014
Total	0.0563	1.2094	0.5947	6.4100e-003	0.2878	0.0112	0.2989	0.0778	0.0107	0.0885		688.3098	688.3098	0.0153	0.0945	716.8509

Freemont Hub Mixed Use Project - Alameda County, Summer

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

3.2 Demolition - 2025

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					2.0314	0.0000	2.0314	0.3076	0.0000	0.3076			0.0000			0.0000
Off-Road	2.4145	21.4739	20.2019	0.0325		0.8998	0.8998		0.8312	0.8312	0.0000	3,102.865 2	3,102.865 2	0.9454		3,126.500 3
Total	2.4145	21.4739	20.2019	0.0325	2.0314	0.8998	2.9312	0.3076	0.8312	1.1387	0.0000	3,102.865 2	3,102.865 2	0.9454		3,126.500 3

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	0.0198	1.1902	0.2801	5.4000e-003	0.1646	0.0106	0.1752	0.0451	0.0101	0.0553		583.3520	583.3520	0.0130	0.0922	611.1496
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	0.0365	0.0191	0.3146	1.0100e-003	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		104.9578	104.9578	2.3200e-003	2.3000e-003	105.7014
Total	0.0563	1.2094	0.5947	6.4100e-003	0.2878	0.0112	0.2989	0.0778	0.0107	0.0885		688.3098	688.3098	0.0153	0.0945	716.8509

Freemont Hub Mixed Use Project - Alameda County, Summer

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

3.3 Site Preparation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.3070	30.7972	30.7065	0.0492		1.3573	1.3573		1.2488	1.2488		4,767.5569	4,767.5569	1.5419		4,806.1050
Total	3.3070	30.7972	30.7065	0.0492	19.6570	1.3573	21.0144	10.1025	1.2488	11.3512		4,767.5569	4,767.5569	1.5419		4,806.1050

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	0.0438	0.0229	0.3775	1.2100e-003	0.1479	6.8000e-004	0.1485	0.0392	6.2000e-004	0.0398		125.9493	125.9493	2.7900e-003	2.7600e-003	126.8417
Total	0.0438	0.0229	0.3775	1.2100e-003	0.1479	6.8000e-004	0.1485	0.0392	6.2000e-004	0.0398		125.9493	125.9493	2.7900e-003	2.7600e-003	126.8417

Freemont Hub Mixed Use Project - Alameda County, Summer

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

3.3 Site Preparation - 2025

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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.3070	30.7972	30.7065	0.0492		1.3573	1.3573		1.2488	1.2488	0.0000	4,767.5569	4,767.5569	1.5419		4,806.1050
Total	3.3070	30.7972	30.7065	0.0492	19.6570	1.3573	21.0144	10.1025	1.2488	11.3512	0.0000	4,767.5569	4,767.5569	1.5419		4,806.1050

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	0.0438	0.0229	0.3775	1.2100e-003	0.1479	6.8000e-004	0.1485	0.0392	6.2000e-004	0.0398		125.9493	125.9493	2.7900e-003	2.7600e-003	126.8417
Total	0.0438	0.0229	0.3775	1.2100e-003	0.1479	6.8000e-004	0.1485	0.0392	6.2000e-004	0.0398		125.9493	125.9493	2.7900e-003	2.7600e-003	126.8417

Freemont Hub Mixed Use Project - Alameda County, Summer

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

3.4 Grading - 2025

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	1.7422	15.9945	18.1292	0.0275		0.7192	0.7192		0.6617	0.6617		2,664.1043	2,664.1043	0.8516		2,685.6449
Total	1.7422	15.9945	18.1292	0.0275	7.0826	0.7192	7.8018	3.4247	0.6617	4.0864		2,664.1043	2,664.1043	0.8516		2,685.6449

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	0.0365	0.0191	0.3146	1.0100e-003	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		104.9578	104.9578	2.3200e-003	2.3000e-003	105.7014
Total	0.0365	0.0191	0.3146	1.0100e-003	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		104.9578	104.9578	2.3200e-003	2.3000e-003	105.7014

Freemont Hub Mixed Use Project - Alameda County, Summer

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

3.4 Grading - 2025

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	1.7422	15.9945	18.1292	0.0275		0.7192	0.7192		0.6617	0.6617	0.0000	2,664.1043	2,664.1043	0.8616		2,685.6449
Total	1.7422	15.9945	18.1292	0.0275	7.0826	0.7192	7.8018	3.4247	0.6617	4.0864	0.0000	2,664.1043	2,664.1043	0.8616		2,685.6449

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	0.0365	0.0191	0.3146	1.0100e-003	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		104.9578	104.9578	2.3200e-003	2.3000e-003	105.7014
Total	0.0365	0.0191	0.3146	1.0100e-003	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		104.9578	104.9578	2.3200e-003	2.3000e-003	105.7014

Freemont Hub Mixed Use Project - Alameda County, Summer

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

3.5 Building Construction - 2025

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	1.2299	10.9578	13.5034	0.0233		0.4619	0.4619		0.4308	0.4308		2,182.3026	2,182.3026	0.6347		2,198.1700
Total	1.2299	10.9578	13.5034	0.0233		0.4619	0.4619		0.4308	0.4308		2,182.3026	2,182.3026	0.6347		2,198.1700

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	0.0624	2.6647	0.7919	0.0122	0.4270	0.0168	0.4438	0.1230	0.0160	0.1390		1,298.1498	1,298.1498	0.0184	0.1945	1,356.5655
Worker	0.7301	0.3822	6.2918	0.0202	2.4644	0.0113	2.4757	0.6537	0.0104	0.6641		2,099.1552	2,099.1552	0.0464	0.0460	2,114.0275
Total	0.7925	3.0469	7.0837	0.0323	2.8914	0.0280	2.9195	0.7766	0.0264	0.8030		3,397.3050	3,397.3050	0.0648	0.2405	3,476.5930

Freemont Hub Mixed Use Project - Alameda County, Summer

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

3.5 Building Construction - 2025

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	1.2299	10.9578	13.5034	0.0233		0.4619	0.4619		0.4308	0.4308	0.0000	2,182.3026	2,182.3026	0.6347		2,198.1700
Total	1.2299	10.9578	13.5034	0.0233		0.4619	0.4619		0.4308	0.4308	0.0000	2,182.3026	2,182.3026	0.6347		2,198.1700

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	0.0524	2.6647	0.7919	0.0122	0.4270	0.0165	0.4438	0.1230	0.0160	0.1390		1,298.1498	1,298.1498	0.0184	0.1945	1,356.5655
Worker	0.7301	0.3822	6.2918	0.0202	2.4644	0.0113	2.4757	0.6537	0.0104	0.6641		2,099.1552	2,099.1552	0.0464	0.0460	2,114.0275
Total	0.7925	3.0469	7.0837	0.0323	2.8914	0.0280	2.9195	0.7766	0.0264	0.8030		3,397.3050	3,397.3050	0.0648	0.2405	3,470.5930

Freemont Hub Mixed Use Project - Alameda County, Summer

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

3.5 Building Construction - 2026

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	1.2299	10.9578	13.5034	0.0233		0.4619	0.4619		0.4308	0.4308		2,182.3026	2,182.3026	0.6347		2,198.1700
Total	1.2299	10.9578	13.5034	0.0233		0.4619	0.4619		0.4308	0.4308		2,182.3026	2,182.3026	0.6347		2,198.1700

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	0.0612	2.6566	0.7813	0.0119	0.4270	0.0167	0.4437	0.1230	0.0160	0.1389		1,274.3382	1,274.3382	0.0184	0.1910	1,331.7044
Worker	0.6881	0.3480	5.9390	0.0195	2.4644	0.0107	2.4752	0.6537	9.8900e-003	0.6636		2,050.8673	2,050.8673	0.0424	0.0435	2,064.8888
Total	0.7493	3.0045	6.7203	0.0315	2.8914	0.0274	2.9189	0.7766	0.0259	0.8025		3,325.2055	3,325.2055	0.0607	0.2345	3,396.5932

Freemont Hub Mixed Use Project - Alameda County, Summer

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

3.5 Building Construction - 2026

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	1.2299	10.9578	13.5034	0.0233		0.4619	0.4619	0.4308	0.4308	0.4308	0.0000	2,182.3026	2,182.3026	0.6347		2,198.1700
Total	1.2299	10.9578	13.5034	0.0233		0.4619	0.4619	0.4308	0.4308	0.4308	0.0000	2,182.3026	2,182.3026	0.6347		2,198.1700

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	0.0612	2.6566	0.7813	0.0119	0.4270	0.0167	0.4437	0.1230	0.0160	0.1389		1,274.3382	1,274.3382	0.0184	0.1910	1,331.7044
Worker	0.6881	0.3480	5.9390	0.0195	2.4644	0.0107	2.4752	0.6537	9.8900e-003	0.6636		2,050.8673	2,050.8673	0.0424	0.0435	2,064.8888
Total	0.7493	3.0045	6.7203	0.0315	2.8914	0.0274	2.9189	0.7766	0.0259	0.8025		3,325.2055	3,325.2055	0.0607	0.2345	3,396.5932

Freemont Hub Mixed Use Project - Alameda County, Summer

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

3.6 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9241	8.2829	10.1181	0.0140		0.4424	0.4424		0.4070	0.4070		1,352,829 2	1,352,829 2	0.4375		1,363,767 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9241	8.2829	10.1181	0.0140		0.4424	0.4424		0.4070	0.4070		1,352,829 2	1,352,829 2	0.4375		1,363,767 5

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	0.0344	0.0174	0.2970	9.8000e-004	0.1232	5.4000e-004	0.1238	0.0327	4.9000e-004	0.0332		102.5434	102.5434	2.1200e-003	2.1700e-003	103.2444
Total	0.0344	0.0174	0.2970	9.8000e-004	0.1232	5.4000e-004	0.1238	0.0327	4.9000e-004	0.0332		102.5434	102.5434	2.1200e-003	2.1700e-003	103.2444

Freemont Hub Mixed Use Project - Alameda County, Summer

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

3.6 Paving - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9241	8.2829	10.1181	0.0140		0.4424	0.4424		0.4070	0.4070	0.0000	1,352.8292	1,352.8292	0.4375		1,363.7675
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9241	8.2829	10.1181	0.0140		0.4424	0.4424		0.4070	0.4070	0.0000	1,352.8292	1,352.8292	0.4375		1,363.7675

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	0.0344	0.0174	0.2970	9.8000e-004	0.1232	5.4000e-004	0.1238	0.0327	4.9000e-004	0.0332		102.5434	102.5434	2.1200e-003	2.1700e-003	103.2444
Total	0.0344	0.0174	0.2970	9.8000e-004	0.1232	5.4000e-004	0.1238	0.0327	4.9000e-004	0.0332		102.5434	102.5434	2.1200e-003	2.1700e-003	103.2444

Freemont Hub Mixed Use Project - Alameda County, Summer

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

3.7 Architectural Coating - 2026

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	158.4876					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	0.1548	0.8821	1.1396	1.6400e-003		0.0273	0.0273		0.0273	0.0273			133.5074	133.5074	0.0139		133.8539
Total	158.6424	0.8821	1.1396	1.6400e-003		0.0273	0.0273		0.0273	0.0273			133.5074	133.5074	0.0139		133.8539

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.1376	0.0696	1.1878	3.9000e-003	0.4929	2.1500e-003	0.4950	0.1307	1.9800e-003	0.1327			410.1735	410.1735	8.4700e-003	8.7000e-003	412.9778
Total	0.1376	0.0696	1.1878	3.9000e-003	0.4929	2.1500e-003	0.4950	0.1307	1.9800e-003	0.1327			410.1735	410.1735	8.4700e-003	8.7000e-003	412.9778

Freemont Hub Mixed Use Project - Alameda County, Summer

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

3.7 Architectural Coating - 2026

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	158.4876					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1548	0.8821	1.1396	1.6400e-003		0.0273	0.0273		0.0273	0.0273	0.0000	133.5074	133.5074	0.0139		133.8539
Total	158.6424	0.8821	1.1396	1.6400e-003		0.0273	0.0273		0.0273	0.0273	0.0000	133.5074	133.5074	0.0139		133.8539

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	0.1376	0.0696	1.1878	3.9000e-003	0.4929	2.1500e-003	0.4950	0.1307	1.9800e-003	0.1327		410.1735	410.1735	8.4700e-003	8.7000e-003	412.9778
Total	0.1376	0.0696	1.1878	3.9000e-003	0.4929	2.1500e-003	0.4950	0.1307	1.9800e-003	0.1327		410.1735	410.1735	8.4700e-003	8.7000e-003	412.9778

Freemont Hub Mixed Use Project - Alameda County, Summer

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

3.7 Architectural Coating - 2027

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	158.4876					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1548	0.8821	1.1396	1.8400e-003		0.0273	0.0273		0.0273	0.0273		133.5074	133.5074	0.0139		133.8539
Total	158.6424	0.8821	1.1396	1.8400e-003		0.0273	0.0273		0.0273	0.0273		133.5074	133.5074	0.0139		133.8539

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	0.1300	0.0638	1.1281	3.7900e-003	0.4929	2.0300e-003	0.4949	0.1307	1.8600e-003	0.1326		401.3911	401.3911	7.7700e-003	8.2800e-003	404.0521
Total	0.1300	0.0638	1.1281	3.7900e-003	0.4929	2.0300e-003	0.4949	0.1307	1.8600e-003	0.1326		401.3911	401.3911	7.7700e-003	8.2800e-003	404.0521

Freemont Hub Mixed Use Project - Alameda County, Summer

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

3.7 Architectural Coating - 2027

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	158.4876					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1548	0.8821	1.1396	1.6400e-003		0.0273	0.0273		0.0273	0.0273	0.0000	133.5074	133.5074	0.0139		133.8539
Total	158.6424	0.8821	1.1396	1.6400e-003		0.0273	0.0273		0.0273	0.0273	0.0000	133.5074	133.5074	0.0139		133.8539

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	0.1300	0.0638	1.1281	3.7900e-003	0.4929	2.0300e-003	0.4949	0.1307	1.8600e-003	0.1326		401.3911	401.3911	7.7700e-003	8.2800e-003	404.0521
Total	0.1300	0.0638	1.1281	3.7900e-003	0.4929	2.0300e-003	0.4949	0.1307	1.8600e-003	0.1326		401.3911	401.3911	7.7700e-003	8.2800e-003	404.0521

Freemont Hub Mixed Use Project - Alameda County, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.1733	5.2558	41.9631	0.0961	10.2679	0.0689	10.3368	2.7347	0.0643	2.7989		10,025.90 31	10,025.90 31	0.5540	0.4663	10,178.69 90
Unmitigated	5.1733	5.2558	41.9631	0.0961	10.2679	0.0689	10.3368	2.7347	0.0643	2.7989		10,025.90 31	10,025.90 31	0.5540	0.4663	10,178.69 90

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,009.60	2,009.60	2,009.60	4,641,387	4,641,387
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	83.20	83.20	83.20	94,740	94,740
Strip Mall	90.88	90.88	90.88	139,958	139,958
Total	2,183.68	2,183.68	2,183.68	4,876,085	4,876,085

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

Freemont Hub Mixed Use Project - Alameda County, Summer

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	9.50	7.30	7.30	7.50	73.50	19.00	38	13	49
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.570753	0.056481	0.179220	0.111941	0.020784	0.005211	0.013984	0.013033	0.000790	0.000560	0.024477	0.000343	0.002423
Enclosed Parking with Elevator	0.570753	0.056481	0.179220	0.111941	0.020784	0.005211	0.013984	0.013033	0.000790	0.000560	0.024477	0.000343	0.002423
Parking Lot	0.570753	0.056481	0.179220	0.111941	0.020784	0.005211	0.013984	0.013033	0.000790	0.000560	0.024477	0.000343	0.002423
Pharmacy/Drugstore with Drive Thru	0.570753	0.056481	0.179220	0.111941	0.020784	0.005211	0.013984	0.013033	0.000790	0.000560	0.024477	0.000343	0.002423
Strip Mall	0.570753	0.056481	0.179220	0.111941	0.020784	0.005211	0.013984	0.013033	0.000790	0.000560	0.024477	0.000343	0.002423

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Freemont Hub Mixed Use Project - Alameda County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0820	0.7026	0.3128	4.4700e-003		0.0567	0.0567		0.0567	0.0567		894.4210	894.4210	0.0171	0.0164	899.7361
NaturalGas Unmitigated	0.0820	0.7026	0.3128	4.4700e-003		0.0567	0.0567		0.0567	0.0567		894.4210	894.4210	0.0171	0.0164	899.7361

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	7263.3	0.0783	0.6694	0.2848	4.2700e-003		0.0541	0.0541		0.0541	0.0541		854.5061	854.5061	0.0164	0.0157	859.5840
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	162.411	1.7500e-003	0.0159	0.0134	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		19.1072	19.1072	3.7000e-004	3.5000e-004	19.2207
Strip Mall	176.886	1.9100e-003	0.0173	0.0146	1.0000e-004		1.3200e-003	1.3200e-003		1.3200e-003	1.3200e-003		20.8077	20.8077	4.0000e-004	3.8000e-004	20.9314
Total		0.0820	0.7026	0.3128	4.4700e-003		0.0567	0.0567		0.0567	0.0567		894.4210	894.4210	0.0172	0.0164	899.7361

Freemont Hub Mixed Use Project - Alameda 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 - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	7.2633	0.0783	0.6694	0.2848	4.2700e-003		0.0541	0.0541		0.0541	0.0541		854.5061	854.5061	0.0164	0.0157	859.5840
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	0.162411	1.7500e-003	0.0159	0.0134	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		19.1072	19.1072	3.7000e-004	3.5000e-004	19.2207
Strip Mall	0.176866	1.9100e-003	0.0173	0.0146	1.0000e-004		1.3200e-003	1.3200e-003		1.3200e-003	1.3200e-003		20.8077	20.8077	4.0000e-004	3.8000e-004	20.9314
Total		0.0820	0.7026	0.3128	4.4700e-003		0.0567	0.0567		0.0567	0.0567		894.4210	894.4210	0.0172	0.0164	899.7361

6.0 Area Detail

6.1 Mitigation Measures Area

Freemont Hub Mixed Use Project - Alameda County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	139.4075	3.1534	196.5477	0.3301		24.3649	24.3649		24.3649	24.3649	2,628.4457	1,210.4066	3,838.8523	3.6419	0.1858	3,985.2628
Unmitigated	139.4075	3.1534	196.5477	0.3301		24.3649	24.3649		24.3649	24.3649	2,628.4457	1,210.4066	3,838.8523	3.6419	0.1858	3,985.2628

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	1.4329					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.0570					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	129.1357	2.8548	170.6138	0.3287		24.2211	24.2211		24.2211	24.2211	2,628.4457	1,163.6471	3,792.0928	3.5969	0.1858	3,937.3792
Landscaping	0.7820	0.2986	25.9339	1.3700e-003		0.1438	0.1438		0.1438	0.1438		46.7595	46.7595	0.0450		47.8836
Total	139.4075	3.1534	196.5477	0.3301		24.3649	24.3649		24.3649	24.3649	2,628.4457	1,210.4066	3,838.8523	3.6419	0.1858	3,985.2628

Freemont Hub Mixed Use Project - Alameda 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	1.4329					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.0570					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	129.1357	2.8548	170.6138	0.3287		24.2211	24.2211		24.2211	24.2211	2,628.4457	1,163.6471	3,792.0928	3.5969	0.1858	3,937.3792
Landscaping	0.7820	0.2986	25.9339	1.3700e-003		0.1438	0.1438		0.1438	0.1438		46.7595	46.7595	0.0450		47.8836
Total	139.4075	3.1534	196.5477	0.3301		24.3649	24.3649		24.3649	24.3649	2,628.4457	1,210.4066	3,838.8523	3.6419	0.1858	3,985.2628

7.0 Water Detail

7.1 Mitigation Measures Water

Freemont Hub Mixed Use Project - Alameda County, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

Freemont Hub Mixed Use Project - Alameda County, Winter

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

Freemont Hub Mixed Use Project
Alameda County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Pharmacy/Drugstore with Drive Thru	13.00	1000sqft	0.34	13,000.00	0
Enclosed Parking with Elevator	442.00	Space	0.00	155,391.00	0
Parking Lot	52.00	Space	0.00	0.00	0
Apartments Mid Rise	314.00	Dwelling Unit	5.86	346,766.00	898
Strip Mall	14.20	1000sqft	0.00	14,157.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	63
Climate Zone	5			Operational Year	2025
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 - Consistent with Memo's model.
- Land Use - Consistent with the Memo's model.
- Construction Phase - See comment on "Unsubstantiated Changes to Individual Construction Phase Lengths".
- Off-road Equipment - Consistent with Memo's model.
- Off-road Equipment - Consistent with Memo's model.
- Off-road Equipment - Consistent with Memo's model.
- Off-road Equipment - Consistent with Memo's model.
- Off-road Equipment - Consistent with Memo's model.

Freemont Hub Mixed Use Project - Alameda County, Winter

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

Off-road Equipment - Consistent with Memo's model.

Trips and VMT -

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Consistent with Memo's model.

Woodstoves -

Water And Wastewater -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	33.00
tblConstructionPhase	NumDays	10.00	17.00
tblConstructionPhase	NumDays	20.00	33.00
tblConstructionPhase	NumDays	230.00	381.00
tblConstructionPhase	NumDays	20.00	33.00
tblConstructionPhase	NumDays	20.00	33.00
tblConstructionPhase	PhaseEndDate	1/31/2025	2/19/2025
tblConstructionPhase	PhaseEndDate	2/14/2025	3/14/2025
tblConstructionPhase	PhaseEndDate	3/14/2025	4/30/2025
tblConstructionPhase	PhaseEndDate	1/30/2026	10/15/2026
tblConstructionPhase	PhaseEndDate	2/27/2026	12/1/2026
tblConstructionPhase	PhaseEndDate	3/27/2026	1/15/2027
tblConstructionPhase	PhaseStartDate	2/1/2025	2/20/2025
tblConstructionPhase	PhaseStartDate	2/15/2025	3/15/2025
tblConstructionPhase	PhaseStartDate	3/15/2025	5/1/2025
tblConstructionPhase	PhaseStartDate	1/31/2026	10/16/2026
tblConstructionPhase	PhaseStartDate	2/28/2026	12/2/2026
tblLandUse	LandUseSquareFeet	176,800.00	155,391.00

Freemont Hub Mixed Use Project - Alameda County, Winter

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

tblLandUse	LandUseSquareFeet	20,800.00	0.00
tblLandUse	LandUseSquareFeet	314,000.00	346,766.00
tblLandUse	LandUseSquareFeet	14,200.00	14,157.00
tblLandUse	LotAcreage	0.30	0.34
tblLandUse	LotAcreage	3.98	0.00
tblLandUse	LotAcreage	0.47	0.00
tblLandUse	LotAcreage	8.26	5.86
tblLandUse	LotAcreage	0.33	0.00
tblOffRoadEquipment	HorsePower	78.00	37.00
tblOffRoadEquipment	HorsePower	81.00	33.00
tblOffRoadEquipment	HorsePower	231.00	367.00
tblOffRoadEquipment	HorsePower	158.00	36.00
tblOffRoadEquipment	HorsePower	158.00	36.00
tblOffRoadEquipment	HorsePower	89.00	82.00
tblOffRoadEquipment	HorsePower	84.00	14.00
tblOffRoadEquipment	HorsePower	187.00	148.00
tblOffRoadEquipment	HorsePower	130.00	81.00
tblOffRoadEquipment	HorsePower	132.00	89.00
tblOffRoadEquipment	HorsePower	80.00	36.00
tblOffRoadEquipment	HorsePower	247.00	367.00
tblOffRoadEquipment	HorsePower	247.00	367.00
tblOffRoadEquipment	HorsePower	247.00	367.00
tblOffRoadEquipment	HorsePower	97.00	84.00
tblOffRoadEquipment	HorsePower	97.00	84.00
tblOffRoadEquipment	HorsePower	97.00	84.00
tblVehicleTrips	ST_TR	4.91	6.40
tblVehicleTrips	ST_TR	114.89	6.40
tblVehicleTrips	ST_TR	42.04	6.40
tblVehicleTrips	SU_TR	4.09	6.40

Freemont Hub Mixed Use Project - Alameda County, Winter

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

tblVehicleTrips	SU_TR	45.57	6.40
tblVehicleTrips	SU_TR	20.43	6.40
tblVehicleTrips	WD_TR	5.44	6.40
tblVehicleTrips	WD_TR	109.16	6.40
tblVehicleTrips	WD_TR	44.32	6.40

2.0 Emissions Summary

Freemont Hub Mixed Use Project - Alameda 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					
2025	3.3518	30.8257	31.0717	0.0542	19.8049	1.3580	21.1629	10.1417	1.2494	11.3910	0.0000	5,431,912.7	5,431,912.7	1.5451	0.2481	5,523,512.6
2026	158.7835	14.2038	20.0683	0.0534	2.8914	0.4894	3.3808	0.7766	0.4567	1.2334	0.0000	5,363,432.6	5,363,432.6	0.7017	0.2417	5,452,994.4
2027	158.7760	0.9614	2.2352	5.1600e-003	0.4929	0.0293	0.5222	0.1307	0.0291	0.1599	0.0000	506,2932	506,2932	0.0228	9.5600e-003	509,7125
Maximum	158.7835	30.8257	31.0717	0.0542	19.8049	1.3580	21.1629	10.1417	1.2494	11.3910	0.0000	5,431,912.7	5,431,912.7	1.5451	0.2481	5,523,512.6

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					
2025	3.3518	30.8257	31.0717	0.0542	19.8049	1.3580	21.1629	10.1417	1.2494	11.3910	0.0000	5,431,912.7	5,431,912.7	1.5451	0.2481	5,523,512.6
2026	158.7835	14.2038	20.0683	0.0534	2.8914	0.4894	3.3808	0.7766	0.4567	1.2334	0.0000	5,363,432.6	5,363,432.6	0.7017	0.2417	5,452,994.4
2027	158.7760	0.9614	2.2352	5.1600e-003	0.4929	0.0293	0.5222	0.1307	0.0291	0.1599	0.0000	506,2932	506,2932	0.0228	9.5600e-003	509,7125
Maximum	158.7835	30.8257	31.0717	0.0542	19.8049	1.3580	21.1629	10.1417	1.2494	11.3910	0.0000	5,431,912.7	5,431,912.7	1.5451	0.2481	5,523,512.6

Freemont Hub Mixed Use Project - Alameda County, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	139.4075	3.1534	196.5477	0.3301		24.3649	24.3649		24.3649	24.3649	2,628.4457	1,210.4066	3,838.8523	3.6419	0.1858	3,985.2628
Energy	0.0820	0.7026	0.3128	4.4700e-003		0.0567	0.0567		0.0567	0.0567		894.4210	894.4210	0.0171	0.0164	899.7361
Mobile	4.5947	6.0105	45.3964	0.0908	10.2679	0.0690	10.3369	2.7347	0.0643	2.7990		9,475.4748	9,475.4748	0.6328	0.5080	9,642.6753
Total	144.0842	9.8666	242.2569	0.4254	10.2679	24.4905	34.7584	2.7347	24.4859	27.2205	2,628.4457	11,580.3023	14,208.7480	4.2918	0.7102	14,527.6742

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	139.4075	3.1534	196.5477	0.3301		24.3649	24.3649		24.3649	24.3649	2,628.4457	1,210.4066	3,838.8523	3.6419	0.1858	3,985.2628
Energy	0.0820	0.7026	0.3128	4.4700e-003		0.0567	0.0567		0.0567	0.0567		894.4210	894.4210	0.0171	0.0164	899.7361
Mobile	4.5947	6.0105	45.3964	0.0908	10.2679	0.0690	10.3369	2.7347	0.0643	2.7990		9,475.4748	9,475.4748	0.6328	0.5080	9,642.6753
Total	144.0842	9.8666	242.2569	0.4254	10.2679	24.4905	34.7584	2.7347	24.4859	27.2205	2,628.4457	11,580.3023	14,208.7480	4.2918	0.7102	14,527.6742

Freemont Hub Mixed Use Project - Alameda County, Winter

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/6/2025	2/19/2025	5	33	
2	Site Preparation	Site Preparation	2/20/2025	3/14/2025	5	17	
3	Grading	Grading	3/15/2025	4/30/2025	5	33	
4	Building Construction	Building Construction	5/1/2025	10/15/2026	5	381	
5	Paving	Paving	10/16/2026	12/1/2026	5	33	
6	Architectural Coating	Architectural Coating	12/2/2026	1/15/2027	5	33	

Acres of Grading (Site Preparation Phase): 25.5

Acres of Grading (Grading Phase): 33

Acres of Paving: 0

Residential Indoor: 702,201; Residential Outdoor: 234,067; Non-Residential Indoor: 40,736; Non-Residential Outdoor: 13,579; Striped Parking Area: 9,323 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	33	0.73
Demolition	Excavators	3	8.00	36	0.38
Demolition	Rubber Tired Dozers	2	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	84	0.37

Freemont Hub Mixed Use Project - Alameda County, Winter

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

Grading	Excavators	1	8.00	36	0.38
Grading	Graders	1	8.00	148	0.41
Grading	Rubber Tired Dozers	1	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	84	0.37
Building Construction	Cranes	1	7.00	367	0.29
Building Construction	Forklifts	3	8.00	82	0.20
Building Construction	Generator Sets	1	8.00	14	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	84	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	81	0.42
Paving	Paving Equipment	2	8.00	89	0.36
Paving	Rollers	2	8.00	36	0.38
Architectural Coating	Air Compressors	1	6.00	37	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	310.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	300.00	63.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	60.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Freemont Hub Mixed Use Project - Alameda County, Winter

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

3.2 Demolition - 2025

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					2.0314	0.0000	2.0314	0.3076	0.0000	0.3076			0.0000			0.0000
Off-Road	2.4145	21.4739	20.2019	0.0325		0.8998	0.8998		0.8312	0.8312		3,102.865 2	3,102.865 2	0.9454		3,126.500 4
Total	2.4145	21.4739	20.2019	0.0325	2.0314	0.8998	2.9312	0.3076	0.8312	1.1387		3,102.865 2	3,102.865 2	0.9454		3,126.500 4

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	0.0185	1.2602	0.2842	5.4100e-003	0.1646	0.0106	0.1752	0.0451	0.0102	0.0553		583.9971	583.9971	0.0129	0.0923	611.8242
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	0.0373	0.0237	0.3043	9.4000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		97.4616	97.4616	2.6700e-003	2.6600e-003	98.3205
Total	0.0558	1.2840	0.5885	6.3500e-003	0.2878	0.0112	0.2990	0.0778	0.0107	0.0885		681.4587	681.4587	0.0156	0.0950	710.1447

Freemont Hub Mixed Use Project - Alameda County, Winter

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

3.2 Demolition - 2025

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					2.0314	0.0000	2.0314	0.3076	0.0000	0.3076			0.0000			0.0000
Off-Road	2.4145	21.4739	20.2019	0.0325		0.8998	0.8998		0.8312	0.8312	0.0000	3,102.8652	3,102.8652	0.9454		3,126.5003
Total	2.4145	21.4739	20.2019	0.0325	2.0314	0.8998	2.9312	0.3076	0.8312	1.1387	0.0000	3,102.8652	3,102.8652	0.9454		3,126.5003

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	0.0185	1.2602	0.2842	5.4100e-003	0.1646	0.0106	0.1752	0.0451	0.0102	0.0553		583.9971	583.9971	0.0129	0.0923	611.8242
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	0.0373	0.0237	0.3043	9.4000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		97.4616	97.4616	2.6700e-003	2.6600e-003	98.3205
Total	0.0558	1.2840	0.5885	6.3500e-003	0.2878	0.0112	0.2990	0.0778	0.0107	0.0885		681.4587	681.4587	0.0156	0.0950	710.1447

Freemont Hub Mixed Use Project - Alameda County, Winter

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

3.3 Site Preparation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.3070	30.7972	30.7065	0.0492		1.3573	1.3573		1.2488	1.2488		4,767.5569	4,767.5569	1.5419		4,806.1050
Total	3.3070	30.7972	30.7065	0.0492	19.6570	1.3573	21.0144	10.1025	1.2488	11.3512		4,767.5569	4,767.5569	1.5419		4,806.1050

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	0.0448	0.0285	0.3651	1.1200e-003	0.1479	6.8000e-004	0.1485	0.0392	6.2000e-004	0.0398		116.9540	116.9540	3.2000e-003	3.1900e-003	117.9846
Total	0.0448	0.0285	0.3651	1.1200e-003	0.1479	6.8000e-004	0.1485	0.0392	6.2000e-004	0.0398		116.9540	116.9540	3.2000e-003	3.1900e-003	117.9846

Freemont Hub Mixed Use Project - Alameda County, Winter

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

3.3 Site Preparation - 2025

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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.3070	30.7972	30.7065	0.0492		1.3573	1.3573		1.2488	1.2488	0.0000	4,767.5569	4,767.5569	1.5419		4,806.1050
Total	3.3070	30.7972	30.7065	0.0492	19.6570	1.3573	21.0144	10.1025	1.2488	11.3512	0.0000	4,767.5569	4,767.5569	1.5419		4,806.1050

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	0.0448	0.0285	0.3651	1.1200e-003	0.1479	6.8000e-004	0.1485	0.0392	6.2000e-004	0.0398		116.9540	116.9540	3.2000e-003	3.1900e-003	117.9846
Total	0.0448	0.0285	0.3651	1.1200e-003	0.1479	6.8000e-004	0.1485	0.0392	6.2000e-004	0.0398		116.9540	116.9540	3.2000e-003	3.1900e-003	117.9846

Freemont Hub Mixed Use Project - Alameda County, Winter

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

3.4 Grading - 2025

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	1.7422	15.9945	18.1292	0.0275		0.7192	0.7192		0.6617	0.6617		2,664.1043	2,664.1043	0.8616		2,685.6449
Total	1.7422	15.9945	18.1292	0.0275	7.0826	0.7192	7.8018	3.4247	0.6617	4.0864		2,664.1043	2,664.1043	0.8616		2,685.6449

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	0.0373	0.0237	0.3043	9.4000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		97.4616	97.4616	2.6700e-003	2.6600e-003	98.3205
Total	0.0373	0.0237	0.3043	9.4000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		97.4616	97.4616	2.6700e-003	2.6600e-003	98.3205

Freemont Hub Mixed Use Project - Alameda County, Winter

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

3.4 Grading - 2025

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	1.7422	15.9945	18.1292	0.0275		0.7192	0.7192		0.6617	0.6617	0.0000	2,664.1043	2,664.1043	0.8616		2,685.6449
Total	1.7422	15.9945	18.1292	0.0275	7.0826	0.7192	7.8018	3.4247	0.6617	4.0864	0.0000	2,664.1043	2,664.1043	0.8616		2,685.6449

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	0.0373	0.0237	0.3043	9.4000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		97.4616	97.4616	2.6700e-003	2.6600e-003	98.3205
Total	0.0373	0.0237	0.3043	9.4000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		97.4616	97.4616	2.6700e-003	2.6600e-003	98.3205

Freemont Hub Mixed Use Project - Alameda County, Winter

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

3.5 Building Construction - 2025

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	1.2299	10.9578	13.5034	0.0233		0.4619	0.4619		0.4308	0.4308		2,182,302.6	2,182,302.6	0.6347		2,188,170.0
Total	1.2299	10.9578	13.5034	0.0233		0.4619	0.4619		0.4308	0.4308		2,182,302.6	2,182,302.6	0.6347		2,188,170.0

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	0.0593	2.8230	0.8185	0.0122	0.4270	0.0168	0.4438	0.1230	0.0161	0.1390		1,300,377.3	1,300,377.3	0.0182	0.1950	1,358,932.4
Worker	0.7464	0.4744	6.0857	0.0187	2.4644	0.0113	2.4757	0.6537	0.0104	0.6641		1,949,232.7	1,949,232.7	0.0534	0.0532	1,966,410.2
Total	0.8056	3.2973	6.9042	0.0309	2.8914	0.0281	2.9195	0.7766	0.0265	0.8031		3,249,610.1	3,249,610.1	0.0716	0.2481	3,325,342.6

Freemont Hub Mixed Use Project - Alameda County, Winter

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

3.5 Building Construction - 2025

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	1.2299	10.9578	13.5034	0.0233		0.4619	0.4619		0.4308	0.4308	0.0000	2,182.3026	2,182.3026	0.6347		2,198.1700
Total	1.2299	10.9578	13.5034	0.0233		0.4619	0.4619		0.4308	0.4308	0.0000	2,182.3026	2,182.3026	0.6347		2,198.1700

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	0.0593	2.8230	0.8185	0.0122	0.4270	0.0168	0.4438	0.1230	0.0161	0.1390		1,300.3773	1,300.3773	0.0182	0.1950	1,358.9324
Worker	0.7464	0.4744	6.0857	0.0187	2.4644	0.0113	2.4757	0.6537	0.0104	0.6641		1,949.2327	1,949.2327	0.0534	0.0532	1,966.4102
Total	0.8056	3.2973	6.9042	0.0309	2.8914	0.0281	2.9195	0.7766	0.0265	0.8031		3,249.6101	3,249.6101	0.0716	0.2481	3,325.3426

Freemont Hub Mixed Use Project - Alameda County, Winter

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

3.5 Building Construction - 2026

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	1.2299	10.9578	13.5034	0.0233		0.4619	0.4619		0.4308	0.4308		2,182.3026	2,182.3026	0.6347		2,198.1700
Total	1.2299	10.9578	13.5034	0.0233		0.4619	0.4619		0.4308	0.4308		2,182.3026	2,182.3026	0.6347		2,198.1700

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	0.0581	2.8142	0.8076	0.0120	0.4270	0.0167	0.4438	0.1230	0.0160	0.1390		1,276.5415	1,276.5415	0.0182	0.1914	1,334.0429
Worker	0.7055	0.4318	5.7573	0.0181	2.4644	0.0107	2.4752	0.6537	9.8900e-003	0.6636		1,904.5885	1,904.5885	0.0488	0.0502	1,920.7815
Total	0.7636	3.2461	6.5649	0.0301	2.8914	0.0275	2.9189	0.7766	0.0259	0.8025		3,181.1300	3,181.1300	0.0670	0.2417	3,254.8244

Freemont Hub Mixed Use Project - Alameda County, Winter

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

3.5 Building Construction - 2026

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	1.2299	10.9578	13.5034	0.0233		0.4619	0.4619		0.4308	0.4308	0.0000	2,182.3026	2,182.3026	0.6347		2,198.1700
Total	1.2299	10.9578	13.5034	0.0233		0.4619	0.4619		0.4308	0.4308	0.0000	2,182.3026	2,182.3026	0.6347		2,198.1700

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	0.0581	2.8142	0.8076	0.0120	0.4270	0.0167	0.4438	0.1230	0.0160	0.1390		1,276.5415	1,276.5415	0.0182	0.1914	1,334.0429
Worker	0.7055	0.4318	5.7573	0.0181	2.4644	0.0107	2.4752	0.6537	9.8900e-003	0.6636		1,904.5885	1,904.5885	0.0488	0.0502	1,920.7815
Total	0.7636	3.2461	6.5649	0.0301	2.8914	0.0275	2.9189	0.7766	0.0259	0.8025		3,181.1300	3,181.1300	0.0670	0.2417	3,254.8244

Freemont Hub Mixed Use Project - Alameda County, Winter

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

3.6 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9241	8.2829	10.1181	0.0140		0.4424	0.4424		0.4070	0.4070		1,352,829.2	1,352,829.2	0.4375		1,363,767.5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9241	8.2829	10.1181	0.0140		0.4424	0.4424		0.4070	0.4070		1,352,829.2	1,352,829.2	0.4375		1,363,767.5

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	0.0353	0.0216	0.2879	9.1000e-004	0.1232	5.4000e-004	0.1238	0.0327	4.9000e-004	0.0332		95.2294	95.2294	2.4400e-003	2.5100e-003	96.0391
Total	0.0353	0.0216	0.2879	9.1000e-004	0.1232	5.4000e-004	0.1238	0.0327	4.9000e-004	0.0332		95.2294	95.2294	2.4400e-003	2.5100e-003	96.0391

Freemont Hub Mixed Use Project - Alameda County, Winter

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

3.6 Paving - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9241	8.2829	10.1181	0.0140		0.4424	0.4424		0.4070	0.4070	0.0000	1,352,829.2	1,352,829.2	0.4375		1,363,767.5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9241	8.2829	10.1181	0.0140		0.4424	0.4424		0.4070	0.4070	0.0000	1,352,829.2	1,352,829.2	0.4375		1,363,767.5

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	0.0353	0.0216	0.2879	9.1000e-004	0.1232	5.4000e-004	0.1238	0.0327	4.9000e-004	0.0332		95.2294	95.2294	2.4400e-003	2.5100e-003	96.0391
Total	0.0353	0.0216	0.2879	9.1000e-004	0.1232	5.4000e-004	0.1238	0.0327	4.9000e-004	0.0332		95.2294	95.2294	2.4400e-003	2.5100e-003	96.0391

Freemont Hub Mixed Use Project - Alameda County, Winter

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

3.7 Architectural Coating - 2026

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	158.4876					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1548	0.8821	1.1396	1.6400e-003		0.0273	0.0273		0.0273	0.0273		133.5074	133.5074	0.0139		133.8539
Total	158.6424	0.8821	1.1396	1.6400e-003		0.0273	0.0273		0.0273	0.0273		133.5074	133.5074	0.0139		133.8539

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1411	0.0864	1.1515	3.6300e-003	0.4929	2.1500e-003	0.4950	0.1307	1.9800e-003	0.1327		380.9177	380.9177	9.7700e-003	0.0101	384.1563
Total	0.1411	0.0864	1.1515	3.6300e-003	0.4929	2.1500e-003	0.4950	0.1307	1.9800e-003	0.1327		380.9177	380.9177	9.7700e-003	0.0101	384.1563

Freemont Hub Mixed Use Project - Alameda County, Winter

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

3.7 Architectural Coating - 2026

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	158.4876					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1548	0.8821	1.1396	1.6400e-003		0.0273	0.0273		0.0273	0.0273	0.0000	133.5074	133.5074	0.0139		133.8539
Total	158.6424	0.8821	1.1396	1.6400e-003		0.0273	0.0273		0.0273	0.0273	0.0000	133.5074	133.5074	0.0139		133.8539

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	0.1411	0.0864	1.1515	3.6300e-003	0.4929	2.1500e-003	0.4950	0.1307	1.9800e-003	0.1327		380.9177	380.9177	9.7700e-003	0.0101	384.1563
Total	0.1411	0.0864	1.1515	3.6300e-003	0.4929	2.1500e-003	0.4950	0.1307	1.9800e-003	0.1327		380.9177	380.9177	9.7700e-003	0.0101	384.1563

Freemont Hub Mixed Use Project - Alameda County, Winter

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

3.7 Architectural Coating - 2027

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	158.4876					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1548	0.8821	1.1396	1.6400e-003		0.0273	0.0273		0.0273	0.0273		133.5074	133.5074	0.0139		133.8539
Total	158.6424	0.8821	1.1396	1.6400e-003		0.0273	0.0273		0.0273	0.0273		133.5074	133.5074	0.0139		133.8539

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	0.1336	0.0792	1.0956	3.5200e-003	0.4929	2.0300e-003	0.4949	0.1307	1.8600e-003	0.1326		372.7858	372.7858	8.9800e-003	9.5600e-003	375.8586
Total	0.1336	0.0792	1.0956	3.5200e-003	0.4929	2.0300e-003	0.4949	0.1307	1.8600e-003	0.1326		372.7858	372.7858	8.9800e-003	9.5600e-003	375.8586

Freemont Hub Mixed Use Project - Alameda County, Winter

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

3.7 Architectural Coating - 2027

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	158.4876					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1548	0.8821	1.1396	1.6400e-003		0.0273	0.0273		0.0273	0.0273	0.0000	133.5074	133.5074	0.0139		133.8539
Total	158.6424	0.8821	1.1396	1.6400e-003		0.0273	0.0273		0.0273	0.0273	0.0000	133.5074	133.5074	0.0139		133.8539

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	0.1336	0.0792	1.0956	3.5200e-003	0.4929	2.0300e-003	0.4949	0.1307	1.8600e-003	0.1326		372.7858	372.7858	8.9800e-003	9.5600e-003	375.8586
Total	0.1336	0.0792	1.0956	3.5200e-003	0.4929	2.0300e-003	0.4949	0.1307	1.8600e-003	0.1326		372.7858	372.7858	8.9800e-003	9.5600e-003	375.8586

Freemont Hub Mixed Use Project - Alameda County, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.5947	6.0105	45.3964	0.0908	10.2679	0.0690	10.3369	2.7347	0.0643	2.7990		9,475,474.8	9,475,474.8	0.6328	0.5080	9,642,675.3
Unmitigated	4.5947	6.0105	45.3964	0.0908	10.2679	0.0690	10.3369	2.7347	0.0643	2.7990		9,475,474.8	9,475,474.8	0.6328	0.5080	9,642,675.3

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartments Mid Rise	2,009.60	2,009.60	2,009.60	4,641,387	4,641,387
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	83.20	83.20	83.20	94,740	94,740
Strip Mall	90.88	90.88	90.88	139,958	139,958
Total	2,183.68	2,183.68	2,183.68	4,876,085	4,876,085

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

Freemont Hub Mixed Use Project - Alameda County, Winter

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	9.50	7.30	7.30	7.50	73.50	19.00	38	13	49
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LOA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.570753	0.056481	0.179220	0.111941	0.020784	0.005211	0.013984	0.013033	0.000790	0.000560	0.024477	0.000343	0.002423
Enclosed Parking with Elevator	0.570753	0.056481	0.179220	0.111941	0.020784	0.005211	0.013984	0.013033	0.000790	0.000560	0.024477	0.000343	0.002423
Parking Lot	0.570753	0.056481	0.179220	0.111941	0.020784	0.005211	0.013984	0.013033	0.000790	0.000560	0.024477	0.000343	0.002423
Pharmacy/Drugstore with Drive Thru	0.570753	0.056481	0.179220	0.111941	0.020784	0.005211	0.013984	0.013033	0.000790	0.000560	0.024477	0.000343	0.002423
Strip Mall	0.570753	0.056481	0.179220	0.111941	0.020784	0.005211	0.013984	0.013033	0.000790	0.000560	0.024477	0.000343	0.002423

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Freemont Hub Mixed Use Project - Alameda County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
NaturalGas Mitigated	0.0820	0.7026	0.3128	4.4700e-003		0.0567	0.0567		0.0567	0.0567			894.4210	894.4210	0.0171	0.0164	899.7361
NaturalGas Unmitigated	0.0820	0.7026	0.3128	4.4700e-003		0.0567	0.0567		0.0567	0.0567			894.4210	894.4210	0.0171	0.0164	899.7361

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Apartments Mid Rise	7263.3	0.0783	0.6694	0.2848	4.2700e-003		0.0541	0.0541		0.0541	0.0541			854.5061	854.5061	0.0164	0.0157	859.5840
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	162.411	1.7500e-003	0.0159	0.0134	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003			19.1072	19.1072	3.7000e-004	3.5000e-004	19.2207
Strip Mall	176.866	1.9100e-003	0.0173	0.0146	1.0000e-004		1.3200e-003	1.3200e-003		1.3200e-003	1.3200e-003			20.8077	20.8077	4.0000e-004	3.8000e-004	20.9314
Total		0.0820	0.7026	0.3128	4.4700e-003		0.0567	0.0567		0.0567	0.0567			894.4210	894.4210	0.0172	0.0164	899.7361

Freemont Hub Mixed Use Project - Alameda County, Winter

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	7.2633	0.0783	0.6694	0.2848	4.2700e-003		0.0541	0.0541		0.0541	0.0541		854.5061	854.5061	0.0164	0.0157	859.5840
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	0.162411	1.7500e-003	0.0159	0.0134	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		19.1072	19.1072	3.7000e-004	3.5000e-004	19.2207
Strip Mall	0.176866	1.9100e-003	0.0173	0.0146	1.0000e-004		1.3200e-003	1.3200e-003		1.3200e-003	1.3200e-003		20.8077	20.8077	4.0000e-004	3.8000e-004	20.9314
Total		0.0820	0.7026	0.3128	4.4700e-003		0.0567	0.0567		0.0567	0.0567		894.4210	894.4210	0.0172	0.0164	899.7361

6.0 Area Detail

6.1 Mitigation Measures Area

Freemont Hub Mixed Use Project - Alameda County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	139.4075	3.1534	196.5477	0.3301		24.3649	24.3649		24.3649	24.3649	2,628.4457	1,210.4066	3,838.8523	3.6419	0.1858	3,985.2628
Unmitigated	139.4075	3.1534	196.5477	0.3301		24.3649	24.3649		24.3649	24.3649	2,628.4457	1,210.4066	3,838.8523	3.6419	0.1858	3,985.2628

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	1.4329					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.0570					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	129.1357	2.8548	179.6138	0.3287		24.2211	24.2211		24.2211	24.2211	2,628.4457	1,163.6471	3,792.0928	3.5969	0.1858	3,937.3792
Landscaping	0.7820	0.2986	25.9339	1.3700e-003		0.1438	0.1438		0.1438	0.1438		46.7595	46.7595	0.0450		47.8836
Total	139.4075	3.1534	196.5477	0.3301		24.3649	24.3649		24.3649	24.3649	2,628.4457	1,210.4066	3,838.8523	3.6419	0.1858	3,985.2628

Freemont Hub Mixed Use Project - Alameda 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	1.4329					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Consumer Products	8.0570					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Hearth	129.1357	2.8548	170.6138	0.3287		24.2211	24.2211		24.2211	24.2211	2,628.4457	1,163.6471	3,792.0928	3.5969	0.1858		3,937.3792
Landscaping	0.7820	0.2986	25.9339	1.3700e-003		0.1438	0.1438		0.1438	0.1438		46.7595	46.7595	0.0450			47.8836
Total	139.4075	3.1534	196.5477	0.3301		24.3649	24.3649		24.3649	24.3649	2,628.4457	1,210.4066	3,838.8523	3.6419	0.1858		3,985.2628

7.0 Water Detail

7.1 Mitigation Measures Water

Freemont Hub Mixed Use Project - Alameda County, Winter

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
