

APPENDIX B - AIR QUALITY

Bellota Weir Modifications Project - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**Bellota Weir Modifications Project
San Joaquin County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	12.40	Acre	12.40	540,144.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	51
Climate Zone	2			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 -

Land Use -

Construction Phase - Project timing per Project Description

Off-road Equipment - Construction equipment derived from Project Description

Off-road Equipment - Ibid

Off-road Equipment - Ibid

Off-road Equipment - Ibid

Off-road Equipment - Ibid

Off-road Equipment - Ibid

Off-road Equipment - Ibid

Off-road Equipment - Ibid

Off-road Equipment - Ibid

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Off-road Equipment - Ibid

Trips and VMT - Vendor trips from Bellota Weir Modifications 90% Design

Demolition -

Grading -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	30.00	130.00
tblConstructionPhase	NumDays	10.00	131.00
tblConstructionPhase	NumDays	10.00	87.00
tblConstructionPhase	NumDays	10.00	130.00
tblConstructionPhase	NumDays	10.00	131.00
tblConstructionPhase	NumDays	10.00	131.00
tblConstructionPhase	NumDays	10.00	130.00
tblGrading	MaterialImported	0.00	3,919.00
tblGrading	MaterialImported	0.00	16,521.00
tblGrading	MaterialImported	0.00	99,437.00
tblGrading	MaterialImported	0.00	10,042.00
tblGrading	MaterialImported	0.00	24,580.00
tblGrading	MaterialImported	0.00	31,277.00
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	3,073.00	3,072.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	24.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0417	0.5710	0.3522	1.3000e-003	0.0469	0.0189	0.0658	8.8500e-003	0.0175	0.0263	0.0000	119.5561	119.5561	0.0182	9.7200e-003	122.9059
2023	0.1787	2.4754	1.8045	8.1700e-003	0.2290	0.0733	0.3022	0.0508	0.0686	0.1195	0.0000	752.7448	752.7448	0.0956	0.0638	774.1462
2024	0.1226	1.4873	1.2417	4.5000e-003	0.0744	0.0494	0.1238	0.0198	0.0468	0.0666	0.0000	409.3532	409.3532	0.0522	0.0278	418.9424
2025	0.0963	1.0675	1.0158	3.3800e-003	0.0450	0.0358	0.0809	0.0120	0.0338	0.0459	0.0000	303.7804	303.7804	0.0491	0.0148	309.4105
Maximum	0.1787	2.4754	1.8045	8.1700e-003	0.2290	0.0733	0.3022	0.0508	0.0686	0.1195	0.0000	752.7448	752.7448	0.0956	0.0638	774.1462

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2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0417	0.5710	0.3522	1.3000e-003	0.0321	0.0189	0.0510	7.2000e-003	0.0174	0.0247	0.0000	119.5561	119.5561	0.0182	9.7200e-003	122.9058
2023	0.1787	2.4754	1.8045	8.1700e-003	0.1767	0.0733	0.2500	0.0438	0.0686	0.1125	0.0000	752.7444	752.7444	0.0956	0.0638	774.1458
2024	0.1226	1.4873	1.2417	4.5000e-003	0.0714	0.0494	0.1209	0.0194	0.0468	0.0662	0.0000	409.3529	409.3529	0.0522	0.0278	418.9421
2025	0.0963	1.0675	1.0158	3.3800e-003	0.0434	0.0358	0.0793	0.0118	0.0338	0.0456	0.0000	303.7802	303.7802	0.0491	0.0148	309.4103
Maximum	0.1787	2.4754	1.8045	8.1700e-003	0.1767	0.0733	0.2500	0.0438	0.0686	0.1125	0.0000	752.7444	752.7444	0.0956	0.0638	774.1458

	ROG	NOx	CO	SO2	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	18.14	0.00	12.52	10.20	0.01	3.61	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)
3	8-25-2022	11-24-2022	0.4391	0.4391
4	11-25-2022	2-24-2023	0.1754	0.1754
5	2-25-2023	5-24-2023	0.5458	0.5458
6	5-25-2023	8-24-2023	1.1210	1.1210
7	8-25-2023	11-24-2023	0.8304	0.8304
8	11-25-2023	2-24-2024	0.3560	0.3560
9	2-25-2024	5-24-2024	0.3495	0.3495
10	5-25-2024	8-24-2024	0.3716	0.3716

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11	8-25-2024	11-24-2024	0.4515	0.4515
12	11-25-2024	2-24-2025	0.5377	0.5377
13	2-25-2025	5-24-2025	0.4049	0.4049
14	5-25-2025	8-24-2025	0.2821	0.2821
15	8-25-2025	9-30-2025	0.1135	0.1135
		Highest	1.1210	1.1210

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0462	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.4000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0462	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.4000e-004

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0462	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.4000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0462	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.4000e-004

	ROG	NOx	CO	SO2	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	Phase 1A Demolition	Demolition	9/1/2022	9/28/2022	5	20	
2	Phase 1A Site Preparation	Site Preparation	9/1/2022	12/31/2022	5	87	
3	Phase 1B Demolition	Demolition	4/15/2023	5/12/2023	5	20	

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4	Phase 1B 1C and 1D Construction	Site Preparation	4/15/2023	10/15/2023	5	130
5	Phase 1C Grading	Grading	4/15/2023	10/15/2023	5	130
6	Phase 2 Demolition	Demolition	10/16/2023	11/10/2023	5	20
7	Phase 2 Construction	Site Preparation	10/16/2023	4/15/2024	5	131
8	Phase 3 Construction	Site Preparation	4/16/2024	10/15/2024	5	131
9	Phase 4 Construction	Site Preparation	10/16/2024	4/15/2025	5	130
10	Phase 5 Construction	Site Preparation	4/16/2025	10/15/2025	5	131

Acres of Grading (Site Preparation Phase): 43.5

Acres of Grading (Grading Phase): 65

Acres of Paving: 12.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase 1A Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Phase 1A Demolition	Excavators	1	8.00	158	0.38
Phase 1A Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Phase 1A Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Phase 1A Site Preparation	Graders	1	8.00	187	0.41
Phase 1A Site Preparation	Rollers	1	8.00	80	0.38
Phase 1A Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Phase 1A Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Phase 1B Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Phase 1B Demolition	Excavators	1	8.00	158	0.38
Phase 1B Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Phase 1B Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Phase 1B 1C and 1D Construction	Cranes	1	8.00	231	0.29

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Phase 1B 1C and 1D Construction	Excavators	0	8.00	158	0.38
Phase 1B 1C and 1D Construction	Generator Sets	1	8.00	84	0.74
Phase 1B 1C and 1D Construction	Graders	0	8.00	187	0.41
Phase 1B 1C and 1D Construction	Rubber Tired Dozers	0	8.00	247	0.40
Phase 1B 1C and 1D Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Phase 1C Grading	Excavators	1	8.00	158	0.38
Phase 1C Grading	Graders	1	8.00	187	0.41
Phase 1C Grading	Rubber Tired Dozers	0	8.00	247	0.40
Phase 1C Grading	Scrapers	0	8.00	367	0.48
Phase 1C Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Phase 2 Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Phase 2 Demolition	Excavators	1	8.00	158	0.38
Phase 2 Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Phase 2 Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Phase 2 Construction	Cranes	1	8.00	231	0.29
Phase 2 Construction	Generator Sets	1	8.00	84	0.74
Phase 2 Construction	Rubber Tired Dozers	0	8.00	247	0.40
Phase 2 Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Phase 3 Construction	Cranes	1	8.00	231	0.29
Phase 3 Construction	Generator Sets	1	8.00	84	0.74
Phase 3 Construction	Rubber Tired Dozers	0	8.00	247	0.40
Phase 3 Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Phase 4 Construction	Cranes	1	8.00	231	0.29
Phase 4 Construction	Generator Sets	1	8.00	84	0.74
Phase 4 Construction	Rubber Tired Dozers	0	8.00	247	0.40
Phase 4 Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Phase 5 Construction	Cranes	1	8.00	231	0.29
Phase 5 Construction	Generator Sets	1	8.00	84	0.74
Phase 5 Construction	Rubber Tired Dozers	0	8.00	247	0.40

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Phase 5 Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Phase 1B 1C and 1D Construction	Bore/Drill Rigs	2	8.00	221	0.50
Phase 4 Construction	Bore/Drill Rigs	2	8.00	221	0.50

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
Phase 1A Demolition	2	5.00	0.00	1.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1A Site Preparation	3	8.00	0.00	2,065.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1B Demolition	2	5.00	0.00	392.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1B 1C and 1D Construction	5	13.00	12.00	12,430.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1C Grading	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Demolition	2	5.00	0.00	1.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Construction	3	8.00	24.00	1,255.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Construction	3	8.00	4.00	3,072.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Construction	5	13.00	8.00	3,910.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Phase 5 Construction	3	8.00	12.00	490.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Phase 1A Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1000e-004	0.0000	1.1000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6700e-003	0.0345	0.0549	8.0000e-005		1.7600e-003	1.7600e-003		1.6200e-003	1.6200e-003	0.0000	7.2689	7.2689	2.3500e-003	0.0000	7.3276
Total	3.6700e-003	0.0345	0.0549	8.0000e-005	1.1000e-004	1.7600e-003	1.8700e-003	2.0000e-005	1.6200e-003	1.6400e-003	0.0000	7.2689	7.2689	2.3500e-003	0.0000	7.3276

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	8.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0296	0.0296	0.0000	0.0000	0.0310
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.6000e-004	1.7800e-003	1.0000e-005	6.2000e-004	0.0000	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.4980	0.4980	1.0000e-005	1.0000e-005	0.5024
Total	2.1000e-004	2.4000e-004	1.7900e-003	1.0000e-005	6.3000e-004	0.0000	6.3000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5276	0.5276	1.0000e-005	1.0000e-005	0.5333

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3.2 Phase 1A Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6700e-003	0.0345	0.0549	8.0000e-005		1.7600e-003	1.7600e-003		1.6200e-003	1.6200e-003	0.0000	7.2689	7.2689	2.3500e-003	0.0000	7.3276
Total	3.6700e-003	0.0345	0.0549	8.0000e-005	4.0000e-005	1.7600e-003	1.8000e-003	1.0000e-005	1.6200e-003	1.6300e-003	0.0000	7.2689	7.2689	2.3500e-003	0.0000	7.3276

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	8.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0296	0.0296	0.0000	0.0000	0.0310
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.6000e-004	1.7800e-003	1.0000e-005	6.2000e-004	0.0000	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.4980	0.4980	1.0000e-005	1.0000e-005	0.5024
Total	2.1000e-004	2.4000e-004	1.7900e-003	1.0000e-005	6.3000e-004	0.0000	6.3000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5276	0.5276	1.0000e-005	1.0000e-005	0.5333

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Phase 1A Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0243	0.0000	0.0243	2.6800e-003	0.0000	2.6800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0325	0.3767	0.2532	5.4000e-004		0.0155	0.0155		0.0143	0.0143	0.0000	47.2217	47.2217	0.0153	0.0000	47.6035
Total	0.0325	0.3767	0.2532	5.4000e-004	0.0243	0.0155	0.0398	2.6800e-003	0.0143	0.0170	0.0000	47.2217	47.2217	0.0153	0.0000	47.6035

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	3.9400e-003	0.1585	0.0300	6.3000e-004	0.0176	1.5900e-003	0.0192	4.8400e-003	1.5200e-003	6.3600e-003	0.0000	61.0719	61.0719	4.3000e-004	9.6100e-003	63.9449
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	1.0800e-003	0.0124	4.0000e-005	4.3100e-003	2.0000e-005	4.3300e-003	1.1500e-003	2.0000e-005	1.1700e-003	0.0000	3.4661	3.4661	9.0000e-005	9.0000e-005	3.4964
Total	5.3700e-003	0.1596	0.0423	6.7000e-004	0.0219	1.6100e-003	0.0235	5.9900e-003	1.5400e-003	7.5300e-003	0.0000	64.5380	64.5380	5.2000e-004	9.7000e-003	67.4414

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Phase 1A Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.4700e-003	0.0000	9.4700e-003	1.0400e-003	0.0000	1.0400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0325	0.3767	0.2532	5.4000e-004		0.0155	0.0155		0.0143	0.0143	0.0000	47.2217	47.2217	0.0153	0.0000	47.6035
Total	0.0325	0.3767	0.2532	5.4000e-004	9.4700e-003	0.0155	0.0250	1.0400e-003	0.0143	0.0153	0.0000	47.2217	47.2217	0.0153	0.0000	47.6035

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	3.9400e-003	0.1585	0.0300	6.3000e-004	0.0176	1.5900e-003	0.0192	4.8400e-003	1.5200e-003	6.3600e-003	0.0000	61.0719	61.0719	4.3000e-004	9.6100e-003	63.9449
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	1.0800e-003	0.0124	4.0000e-005	4.3100e-003	2.0000e-005	4.3300e-003	1.1500e-003	2.0000e-005	1.1700e-003	0.0000	3.4661	3.4661	9.0000e-005	9.0000e-005	3.4964
Total	5.3700e-003	0.1596	0.0423	6.7000e-004	0.0219	1.6100e-003	0.0235	5.9900e-003	1.5400e-003	7.5300e-003	0.0000	64.5380	64.5380	5.2000e-004	9.7000e-003	67.4414

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Phase 1B Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0430	0.0000	0.0430	6.5200e-003	0.0000	6.5200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-003	0.0308	0.0549	8.0000e-005		1.5200e-003	1.5200e-003		1.3900e-003	1.3900e-003	0.0000	7.2727	7.2727	2.3500e-003	0.0000	7.3315
Total	3.4000e-003	0.0308	0.0549	8.0000e-005	0.0430	1.5200e-003	0.0446	6.5200e-003	1.3900e-003	7.9100e-003	0.0000	7.2727	7.2727	2.3500e-003	0.0000	7.3315

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	4.1000e-004	0.0245	5.1100e-003	1.2000e-004	3.3400e-003	2.3000e-004	3.5700e-003	9.2000e-004	2.2000e-004	1.1400e-003	0.0000	11.1177	11.1177	6.0000e-005	1.7500e-003	11.6403
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	1.9000e-004	1.3000e-004	1.6200e-003	1.0000e-005	6.2000e-004	0.0000	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.4819	0.4819	1.0000e-005	1.0000e-005	0.4859
Total	6.0000e-004	0.0246	6.7300e-003	1.3000e-004	3.9600e-003	2.3000e-004	4.1900e-003	1.0800e-003	2.2000e-004	1.3100e-003	0.0000	11.5996	11.5996	7.0000e-005	1.7600e-003	12.1262

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Phase 1B Demolition - 2023

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					0.0168	0.0000	0.0168	2.5400e-003	0.0000	2.5400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-003	0.0308	0.0549	8.0000e-005		1.5200e-003	1.5200e-003		1.3900e-003	1.3900e-003	0.0000	7.2727	7.2727	2.3500e-003	0.0000	7.3315
Total	3.4000e-003	0.0308	0.0549	8.0000e-005	0.0168	1.5200e-003	0.0183	2.5400e-003	1.3900e-003	3.9300e-003	0.0000	7.2727	7.2727	2.3500e-003	0.0000	7.3315

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	4.1000e-004	0.0245	5.1100e-003	1.2000e-004	3.3400e-003	2.3000e-004	3.5700e-003	9.2000e-004	2.2000e-004	1.1400e-003	0.0000	11.1177	11.1177	6.0000e-005	1.7500e-003	11.6403
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	1.9000e-004	1.3000e-004	1.6200e-003	1.0000e-005	6.2000e-004	0.0000	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.4819	0.4819	1.0000e-005	1.0000e-005	0.4859
Total	6.0000e-004	0.0246	6.7300e-003	1.3000e-004	3.9600e-003	2.3000e-004	4.1900e-003	1.0800e-003	2.2000e-004	1.3100e-003	0.0000	11.5996	11.5996	7.0000e-005	1.7600e-003	12.1262

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Phase 1B 1C and 1D Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.3400e-003	0.0000	7.3400e-003	1.1100e-003	0.0000	1.1100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0807	0.7908	0.7684	2.2400e-003		0.0323	0.0323		0.0303	0.0303	0.0000	195.9704	195.9704	0.0531	0.0000	197.2983
Total	0.0807	0.7908	0.7684	2.2400e-003	7.3400e-003	0.0323	0.0396	1.1100e-003	0.0303	0.0315	0.0000	195.9704	195.9704	0.0531	0.0000	197.2983

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	0.0131	0.7769	0.1621	3.6600e-003	0.1060	7.3100e-003	0.1133	0.0291	6.9900e-003	0.0361	0.0000	352.5316	352.5316	2.0300e-003	0.0555	369.1055
Vendor	7.9000e-004	0.0321	9.8900e-003	1.4000e-004	4.6600e-003	2.0000e-004	4.8600e-003	1.3500e-003	1.9000e-004	1.5400e-003	0.0000	13.7020	13.7020	7.0000e-005	2.0700e-003	14.3213
Worker	3.2000e-003	2.2800e-003	0.0273	9.0000e-005	0.0105	5.0000e-005	0.0105	2.7800e-003	5.0000e-005	2.8300e-003	0.0000	8.1448	8.1448	1.9000e-004	2.1000e-004	8.2119
Total	0.0171	0.8112	0.1993	3.8900e-003	0.1211	7.5600e-003	0.1287	0.0333	7.2300e-003	0.0405	0.0000	374.3783	374.3783	2.2900e-003	0.0577	391.6386

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Phase 1B 1C and 1D Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.8600e-003	0.0000	2.8600e-003	4.3000e-004	0.0000	4.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0807	0.7908	0.7684	2.2400e-003		0.0323	0.0323		0.0303	0.0303	0.0000	195.9702	195.9702	0.0531	0.0000	197.2981
Total	0.0807	0.7908	0.7684	2.2400e-003	2.8600e-003	0.0323	0.0351	4.3000e-004	0.0303	0.0308	0.0000	195.9702	195.9702	0.0531	0.0000	197.2981

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	0.0131	0.7769	0.1621	3.6600e-003	0.1060	7.3100e-003	0.1133	0.0291	6.9900e-003	0.0361	0.0000	352.5316	352.5316	2.0300e-003	0.0555	369.1055
Vendor	7.9000e-004	0.0321	9.8900e-003	1.4000e-004	4.6600e-003	2.0000e-004	4.8600e-003	1.3500e-003	1.9000e-004	1.5400e-003	0.0000	13.7020	13.7020	7.0000e-005	2.0700e-003	14.3213
Worker	3.2000e-003	2.2800e-003	0.0273	9.0000e-005	0.0105	5.0000e-005	0.0105	2.7800e-003	5.0000e-005	2.8300e-003	0.0000	8.1448	8.1448	1.9000e-004	2.1000e-004	8.2119
Total	0.0171	0.8112	0.1993	3.8900e-003	0.1211	7.5600e-003	0.1287	0.0333	7.2300e-003	0.0405	0.0000	374.3783	374.3783	2.2900e-003	0.0577	391.6386

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Phase 1C Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0345	0.0000	0.0345	3.7200e-003	0.0000	3.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0470	0.5029	0.4668	9.7000e-004		0.0197	0.0197		0.0181	0.0181	0.0000	85.0621	85.0621	0.0275	0.0000	85.7499
Total	0.0470	0.5029	0.4668	9.7000e-004	0.0345	0.0197	0.0541	3.7200e-003	0.0181	0.0218	0.0000	85.0621	85.0621	0.0275	0.0000	85.7499

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	1.9700e-003	1.4000e-003	0.0168	5.0000e-005	6.4400e-003	3.0000e-005	6.4700e-003	1.7100e-003	3.0000e-005	1.7400e-003	0.0000	5.0122	5.0122	1.2000e-004	1.3000e-004	5.0535
Total	1.9700e-003	1.4000e-003	0.0168	5.0000e-005	6.4400e-003	3.0000e-005	6.4700e-003	1.7100e-003	3.0000e-005	1.7400e-003	0.0000	5.0122	5.0122	1.2000e-004	1.3000e-004	5.0535

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3.6 Phase 1C Grading - 2023

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					0.0134	0.0000	0.0134	1.4500e-003	0.0000	1.4500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0470	0.5029	0.4668	9.7000e-004		0.0197	0.0197		0.0181	0.0181	0.0000	85.0620	85.0620	0.0275	0.0000	85.7498
Total	0.0470	0.5029	0.4668	9.7000e-004	0.0134	0.0197	0.0331	1.4500e-003	0.0181	0.0195	0.0000	85.0620	85.0620	0.0275	0.0000	85.7498

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	1.9700e-003	1.4000e-003	0.0168	5.0000e-005	6.4400e-003	3.0000e-005	6.4700e-003	1.7100e-003	3.0000e-005	1.7400e-003	0.0000	5.0122	5.0122	1.2000e-004	1.3000e-004	5.0535
Total	1.9700e-003	1.4000e-003	0.0168	5.0000e-005	6.4400e-003	3.0000e-005	6.4700e-003	1.7100e-003	3.0000e-005	1.7400e-003	0.0000	5.0122	5.0122	1.2000e-004	1.3000e-004	5.0535

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Phase 2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1000e-004	0.0000	1.1000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-003	0.0308	0.0549	8.0000e-005		1.5200e-003	1.5200e-003		1.3900e-003	1.3900e-003	0.0000	7.2727	7.2727	2.3500e-003	0.0000	7.3315
Total	3.4000e-003	0.0308	0.0549	8.0000e-005	1.1000e-004	1.5200e-003	1.6300e-003	2.0000e-005	1.3900e-003	1.4100e-003	0.0000	7.2727	7.2727	2.3500e-003	0.0000	7.3315

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	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0284	0.0284	0.0000	0.0000	0.0297
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	1.9000e-004	1.3000e-004	1.6200e-003	1.0000e-005	6.2000e-004	0.0000	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.4819	0.4819	1.0000e-005	1.0000e-005	0.4859
Total	1.9000e-004	1.9000e-004	1.6300e-003	1.0000e-005	6.3000e-004	0.0000	6.3000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5103	0.5103	1.0000e-005	1.0000e-005	0.5156

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Phase 2 Demolition - 2023

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-003	0.0308	0.0549	8.0000e-005		1.5200e-003	1.5200e-003		1.3900e-003	1.3900e-003	0.0000	7.2727	7.2727	2.3500e-003	0.0000	7.3315
Total	3.4000e-003	0.0308	0.0549	8.0000e-005	4.0000e-005	1.5200e-003	1.5600e-003	1.0000e-005	1.3900e-003	1.4000e-003	0.0000	7.2727	7.2727	2.3500e-003	0.0000	7.3315

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	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0284	0.0284	0.0000	0.0000	0.0297
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	1.9000e-004	1.3000e-004	1.6200e-003	1.0000e-005	6.2000e-004	0.0000	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.4819	0.4819	1.0000e-005	1.0000e-005	0.4859
Total	1.9000e-004	1.9000e-004	1.6300e-003	1.0000e-005	6.3000e-004	0.0000	6.3000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5103	0.5103	1.0000e-005	1.0000e-005	0.5156

Bellota Weir Modifications Project - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Phase 2 Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.4000e-004	0.0000	7.4000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.2218	0.2127	4.3000e-004		9.9900e-003	9.9900e-003		9.4800e-003	9.4800e-003	0.0000	37.0080	37.0080	7.6300e-003	0.0000	37.1986
Total	0.0222	0.2218	0.2127	4.3000e-004	7.4000e-004	9.9900e-003	0.0107	1.1000e-004	9.4800e-003	9.5900e-003	0.0000	37.0080	37.0080	7.6300e-003	0.0000	37.1986

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.6000e-004	0.0329	6.8700e-003	1.6000e-004	4.4900e-003	3.1000e-004	4.8000e-003	1.2400e-003	3.0000e-004	1.5300e-003	0.0000	14.9438	14.9438	9.0000e-005	2.3500e-003	15.6464
Vendor	6.7000e-004	0.0272	8.3600e-003	1.2000e-004	3.9400e-003	1.7000e-004	4.1100e-003	1.1400e-003	1.6000e-004	1.3000e-003	0.0000	11.5940	11.5940	6.0000e-005	1.7500e-003	12.1180
Worker	8.3000e-004	5.9000e-004	7.1200e-003	2.0000e-005	2.7200e-003	1.0000e-005	2.7400e-003	7.2000e-004	1.0000e-005	7.4000e-004	0.0000	2.1205	2.1205	5.0000e-005	5.0000e-005	2.1380
Total	2.0600e-003	0.0607	0.0224	3.0000e-004	0.0112	4.9000e-004	0.0117	3.1000e-003	4.7000e-004	3.5700e-003	0.0000	28.6584	28.6584	2.0000e-004	4.1500e-003	29.9024

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Phase 2 Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.9000e-004	0.0000	2.9000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.2218	0.2127	4.3000e-004		9.9900e-003	9.9900e-003		9.4800e-003	9.4800e-003	0.0000	37.0080	37.0080	7.6300e-003	0.0000	37.1986
Total	0.0222	0.2218	0.2127	4.3000e-004	2.9000e-004	9.9900e-003	0.0103	4.0000e-005	9.4800e-003	9.5200e-003	0.0000	37.0080	37.0080	7.6300e-003	0.0000	37.1986

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.6000e-004	0.0329	6.8700e-003	1.6000e-004	4.4900e-003	3.1000e-004	4.8000e-003	1.2400e-003	3.0000e-004	1.5300e-003	0.0000	14.9438	14.9438	9.0000e-005	2.3500e-003	15.6464
Vendor	6.7000e-004	0.0272	8.3600e-003	1.2000e-004	3.9400e-003	1.7000e-004	4.1100e-003	1.1400e-003	1.6000e-004	1.3000e-003	0.0000	11.5940	11.5940	6.0000e-005	1.7500e-003	12.1180
Worker	8.3000e-004	5.9000e-004	7.1200e-003	2.0000e-005	2.7200e-003	1.0000e-005	2.7400e-003	7.2000e-004	1.0000e-005	7.4000e-004	0.0000	2.1205	2.1205	5.0000e-005	5.0000e-005	2.1380
Total	2.0600e-003	0.0607	0.0224	3.0000e-004	0.0112	4.9000e-004	0.0117	3.1000e-003	4.7000e-004	3.5700e-003	0.0000	28.6584	28.6584	2.0000e-004	4.1500e-003	29.9024

Bellota Weir Modifications Project - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Phase 2 Construction - 2024

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					7.4000e-004	0.0000	7.4000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0289	0.2849	0.2916	5.9000e-004		0.0123	0.0123		0.0116	0.0116	0.0000	51.1445	51.1445	0.0105	0.0000	51.4061
Total	0.0289	0.2849	0.2916	5.9000e-004	7.4000e-004	0.0123	0.0130	1.1000e-004	0.0116	0.0117	0.0000	51.1445	51.1445	0.0105	0.0000	51.4061

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	7.6000e-004	0.0454	9.4800e-003	2.1000e-004	6.2100e-003	4.3000e-004	6.6400e-003	1.7100e-003	4.1000e-004	2.1200e-003	0.0000	20.2771	20.2771	1.1000e-004	3.1900e-003	21.2303
Vendor	9.0000e-004	0.0376	0.0113	1.6000e-004	5.4500e-003	2.4000e-004	5.6900e-003	1.5800e-003	2.3000e-004	1.8000e-003	0.0000	15.7716	15.7716	8.0000e-005	2.3800e-003	16.4836
Worker	1.0600e-003	7.2000e-004	9.0600e-003	3.0000e-005	3.7700e-003	2.0000e-005	3.7800e-003	1.0000e-003	2.0000e-005	1.0200e-003	0.0000	2.8286	2.8286	6.0000e-005	7.0000e-005	2.8507
Total	2.7200e-003	0.0837	0.0299	4.0000e-004	0.0154	6.9000e-004	0.0161	4.2900e-003	6.6000e-004	4.9400e-003	0.0000	38.8773	38.8773	2.5000e-004	5.6400e-003	40.5646

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Phase 2 Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.9000e-004	0.0000	2.9000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0289	0.2849	0.2916	5.9000e-004		0.0123	0.0123		0.0116	0.0116	0.0000	51.1444	51.1444	0.0105	0.0000	51.4060
Total	0.0289	0.2849	0.2916	5.9000e-004	2.9000e-004	0.0123	0.0126	4.0000e-005	0.0116	0.0117	0.0000	51.1444	51.1444	0.0105	0.0000	51.4060

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	7.6000e-004	0.0454	9.4800e-003	2.1000e-004	6.2100e-003	4.3000e-004	6.6400e-003	1.7100e-003	4.1000e-004	2.1200e-003	0.0000	20.2771	20.2771	1.1000e-004	3.1900e-003	21.2303
Vendor	9.0000e-004	0.0376	0.0113	1.6000e-004	5.4500e-003	2.4000e-004	5.6900e-003	1.5800e-003	2.3000e-004	1.8000e-003	0.0000	15.7716	15.7716	8.0000e-005	2.3800e-003	16.4836
Worker	1.0600e-003	7.2000e-004	9.0600e-003	3.0000e-005	3.7700e-003	2.0000e-005	3.7800e-003	1.0000e-003	2.0000e-005	1.0200e-003	0.0000	2.8286	2.8286	6.0000e-005	7.0000e-005	2.8507
Total	2.7200e-003	0.0837	0.0299	4.0000e-004	0.0154	6.9000e-004	0.0161	4.2900e-003	6.6000e-004	4.9400e-003	0.0000	38.8773	38.8773	2.5000e-004	5.6400e-003	40.5646

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Phase 3 Construction - 2024

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					1.8100e-003	0.0000	1.8100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0498	0.4911	0.5027	1.0100e-003		0.0212	0.0212		0.0200	0.0200	0.0000	88.1569	88.1569	0.0180	0.0000	88.6078
Total	0.0498	0.4911	0.5027	1.0100e-003	1.8100e-003	0.0212	0.0230	2.7000e-004	0.0200	0.0203	0.0000	88.1569	88.1569	0.0180	0.0000	88.6078

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	3.2200e-003	0.1914	0.0400	8.9000e-004	0.0262	1.8200e-003	0.0280	7.2000e-003	1.7400e-003	8.9400e-003	0.0000	85.5541	85.5541	4.8000e-004	0.0135	89.5760
Vendor	2.6000e-004	0.0108	3.2600e-003	5.0000e-005	1.5700e-003	7.0000e-005	1.6300e-003	4.5000e-004	6.0000e-005	5.2000e-004	0.0000	4.5309	4.5309	2.0000e-005	6.8000e-004	4.7354
Worker	1.8300e-003	1.2300e-003	0.0156	5.0000e-005	6.4900e-003	3.0000e-005	6.5200e-003	1.7300e-003	3.0000e-005	1.7500e-003	0.0000	4.8756	4.8756	1.1000e-004	1.2000e-004	4.9138
Total	5.3100e-003	0.2035	0.0589	9.9000e-004	0.0343	1.9200e-003	0.0362	9.3800e-003	1.8300e-003	0.0112	0.0000	94.9606	94.9606	6.1000e-004	0.0143	99.2252

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Phase 3 Construction - 2024

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					7.1000e-004	0.0000	7.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0498	0.4911	0.5027	1.0100e-003		0.0212	0.0212		0.0200	0.0200	0.0000	88.1568	88.1568	0.0180	0.0000	88.6077
Total	0.0498	0.4911	0.5027	1.0100e-003	7.1000e-004	0.0212	0.0219	1.1000e-004	0.0200	0.0202	0.0000	88.1568	88.1568	0.0180	0.0000	88.6077

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	3.2200e-003	0.1914	0.0400	8.9000e-004	0.0262	1.8200e-003	0.0280	7.2000e-003	1.7400e-003	8.9400e-003	0.0000	85.5541	85.5541	4.8000e-004	0.0135	89.5760
Vendor	2.6000e-004	0.0108	3.2600e-003	5.0000e-005	1.5700e-003	7.0000e-005	1.6300e-003	4.5000e-004	6.0000e-005	5.2000e-004	0.0000	4.5309	4.5309	2.0000e-005	6.8000e-004	4.7354
Worker	1.8300e-003	1.2300e-003	0.0156	5.0000e-005	6.4900e-003	3.0000e-005	6.5200e-003	1.7300e-003	3.0000e-005	1.7500e-003	0.0000	4.8756	4.8756	1.1000e-004	1.2000e-004	4.9138
Total	5.3100e-003	0.2035	0.0589	9.9000e-004	0.0343	1.9200e-003	0.0362	9.3800e-003	1.8300e-003	0.0112	0.0000	94.9606	94.9606	6.1000e-004	0.0143	99.2252

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Phase 4 Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3100e-003	0.0000	2.3100e-003	3.5000e-004	0.0000	3.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0326	0.3113	0.3237	9.5000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	83.0133	83.0133	0.0225	0.0000	83.5746
Total	0.0326	0.3113	0.3237	9.5000e-004	2.3100e-003	0.0124	0.0147	3.5000e-004	0.0116	0.0120	0.0000	83.0133	83.0133	0.0225	0.0000	83.5746

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7400e-003	0.1031	0.0216	4.8000e-004	0.0141	9.8000e-004	0.0151	3.8800e-003	9.4000e-004	4.8200e-003	0.0000	46.0697	46.0697	2.6000e-004	7.2500e-003	48.2355
Vendor	2.2000e-004	9.0600e-003	2.7400e-003	4.0000e-005	1.3100e-003	6.0000e-005	1.3700e-003	3.8000e-004	5.0000e-005	4.3000e-004	0.0000	3.8046	3.8046	2.0000e-005	5.7000e-004	3.9763
Worker	1.2500e-003	8.4000e-004	0.0107	4.0000e-005	4.4300e-003	2.0000e-005	4.4500e-003	1.1800e-003	2.0000e-005	1.2000e-003	0.0000	3.3264	3.3264	7.0000e-005	8.0000e-005	3.3524
Total	3.2100e-003	0.1130	0.0349	5.6000e-004	0.0198	1.0600e-003	0.0209	5.4400e-003	1.0100e-003	6.4500e-003	0.0000	53.2007	53.2007	3.5000e-004	7.9000e-003	55.5642

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Phase 4 Construction - 2024

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					9.0000e-004	0.0000	9.0000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0326	0.3113	0.3237	9.5000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	83.0132	83.0132	0.0225	0.0000	83.5745
Total	0.0326	0.3113	0.3237	9.5000e-004	9.0000e-004	0.0124	0.0133	1.4000e-004	0.0116	0.0117	0.0000	83.0132	83.0132	0.0225	0.0000	83.5745

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7400e-003	0.1031	0.0216	4.8000e-004	0.0141	9.8000e-004	0.0151	3.8800e-003	9.4000e-004	4.8200e-003	0.0000	46.0697	46.0697	2.6000e-004	7.2500e-003	48.2355
Vendor	2.2000e-004	9.0600e-003	2.7400e-003	4.0000e-005	1.3100e-003	6.0000e-005	1.3700e-003	3.8000e-004	5.0000e-005	4.3000e-004	0.0000	3.8046	3.8046	2.0000e-005	5.7000e-004	3.9763
Worker	1.2500e-003	8.4000e-004	0.0107	4.0000e-005	4.4300e-003	2.0000e-005	4.4500e-003	1.1800e-003	2.0000e-005	1.2000e-003	0.0000	3.3264	3.3264	7.0000e-005	8.0000e-005	3.3524
Total	3.2100e-003	0.1130	0.0349	5.6000e-004	0.0198	1.0600e-003	0.0209	5.4400e-003	1.0100e-003	6.4500e-003	0.0000	53.2007	53.2007	3.5000e-004	7.9000e-003	55.5642

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3.10 Phase 4 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					
Fugitive Dust					2.3100e-003	0.0000	2.3100e-003	3.5000e-004	0.0000	3.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0425	0.3993	0.4394	1.2900e-003		0.0153	0.0153		0.0143	0.0143	0.0000	113.2027	113.2027	0.0305	0.0000	113.9662
Total	0.0425	0.3993	0.4394	1.2900e-003	2.3100e-003	0.0153	0.0176	3.5000e-004	0.0143	0.0147	0.0000	113.2027	113.2027	0.0305	0.0000	113.9662

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	2.3500e-003	0.1394	0.0293	6.4000e-004	0.0192	1.3300e-003	0.0206	5.2900e-003	1.2800e-003	6.5600e-003	0.0000	61.5035	61.5035	3.4000e-004	9.6700e-003	64.3946
Vendor	2.9000e-004	0.0123	3.6700e-003	5.0000e-005	1.7900e-003	8.0000e-005	1.8700e-003	5.2000e-004	7.0000e-005	5.9000e-004	0.0000	5.0957	5.0957	2.0000e-005	7.7000e-004	5.3254
Worker	1.5900e-003	1.0100e-003	0.0134	5.0000e-005	6.0400e-003	3.0000e-005	6.0600e-003	1.6000e-003	2.0000e-005	1.6300e-003	0.0000	4.3824	4.3824	9.0000e-005	1.0000e-004	4.4153
Total	4.2300e-003	0.1527	0.0464	7.4000e-004	0.0271	1.4400e-003	0.0285	7.4100e-003	1.3700e-003	8.7800e-003	0.0000	70.9815	70.9815	4.5000e-004	0.0105	74.1352

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3.10 Phase 4 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	tons/yr										MT/yr					
Fugitive Dust					9.0000e-004	0.0000	9.0000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0425	0.3993	0.4394	1.2900e-003		0.0153	0.0153		0.0143	0.0143	0.0000	113.2026	113.2026	0.0305	0.0000	113.9661
Total	0.0425	0.3993	0.4394	1.2900e-003	9.0000e-004	0.0153	0.0162	1.4000e-004	0.0143	0.0145	0.0000	113.2026	113.2026	0.0305	0.0000	113.9661

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	2.3500e-003	0.1394	0.0293	6.4000e-004	0.0192	1.3300e-003	0.0206	5.2900e-003	1.2800e-003	6.5600e-003	0.0000	61.5035	61.5035	3.4000e-004	9.6700e-003	64.3946
Vendor	2.9000e-004	0.0123	3.6700e-003	5.0000e-005	1.7900e-003	8.0000e-005	1.8700e-003	5.2000e-004	7.0000e-005	5.9000e-004	0.0000	5.0957	5.0957	2.0000e-005	7.7000e-004	5.3254
Worker	1.5900e-003	1.0100e-003	0.0134	5.0000e-005	6.0400e-003	3.0000e-005	6.0600e-003	1.6000e-003	2.0000e-005	1.6300e-003	0.0000	4.3824	4.3824	9.0000e-005	1.0000e-004	4.4153
Total	4.2300e-003	0.1527	0.0464	7.4000e-004	0.0271	1.4400e-003	0.0285	7.4100e-003	1.3700e-003	8.7800e-003	0.0000	70.9815	70.9815	4.5000e-004	0.0105	74.1352

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3.11 Phase 5 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					
Fugitive Dust					2.9000e-004	0.0000	2.9000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0466	0.4519	0.4995	1.0100e-003		0.0186	0.0186		0.0176	0.0176	0.0000	88.1752	88.1752	0.0179	0.0000	88.6230
Total	0.0466	0.4519	0.4995	1.0100e-003	2.9000e-004	0.0186	0.0189	4.0000e-005	0.0176	0.0177	0.0000	88.1752	88.1752	0.0179	0.0000	88.6230

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.1000e-004	0.0303	6.3700e-003	1.4000e-004	4.1800e-003	2.9000e-004	4.4700e-003	1.1500e-003	2.8000e-004	1.4300e-003	0.0000	13.3598	13.3598	7.0000e-005	2.1000e-003	13.9879
Vendor	7.6000e-004	0.0323	9.6100e-003	1.4000e-004	4.7000e-003	2.0000e-004	4.9000e-003	1.3600e-003	1.9000e-004	1.5500e-003	0.0000	13.3506	13.3506	6.0000e-005	2.0100e-003	13.9524
Worker	1.7100e-003	1.0900e-003	0.0145	5.0000e-005	6.4900e-003	3.0000e-005	6.5200e-003	1.7300e-003	3.0000e-005	1.7500e-003	0.0000	4.7105	4.7105	9.0000e-005	1.1000e-004	4.7458
Total	2.9800e-003	0.0636	0.0304	3.3000e-004	0.0154	5.2000e-004	0.0159	4.2400e-003	5.0000e-004	4.7300e-003	0.0000	31.4210	31.4210	2.2000e-004	4.2200e-003	32.6861

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Phase 5 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	tons/yr										MT/yr					
Fugitive Dust					1.1000e-004	0.0000	1.1000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0466	0.4519	0.4995	1.0100e-003		0.0186	0.0186		0.0176	0.0176	0.0000	88.1751	88.1751	0.0179	0.0000	88.6229
Total	0.0466	0.4519	0.4995	1.0100e-003	1.1000e-004	0.0186	0.0187	2.0000e-005	0.0176	0.0176	0.0000	88.1751	88.1751	0.0179	0.0000	88.6229

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.1000e-004	0.0303	6.3700e-003	1.4000e-004	4.1800e-003	2.9000e-004	4.4700e-003	1.1500e-003	2.8000e-004	1.4300e-003	0.0000	13.3598	13.3598	7.0000e-005	2.1000e-003	13.9879
Vendor	7.6000e-004	0.0323	9.6100e-003	1.4000e-004	4.7000e-003	2.0000e-004	4.9000e-003	1.3600e-003	1.9000e-004	1.5500e-003	0.0000	13.3506	13.3506	6.0000e-005	2.0100e-003	13.9524
Worker	1.7100e-003	1.0900e-003	0.0145	5.0000e-005	6.4900e-003	3.0000e-005	6.5200e-003	1.7300e-003	3.0000e-005	1.7500e-003	0.0000	4.7105	4.7105	9.0000e-005	1.1000e-004	4.7458
Total	2.9800e-003	0.0636	0.0304	3.3000e-004	0.0154	5.2000e-004	0.0159	4.2400e-003	5.0000e-004	4.7300e-003	0.0000	31.4210	31.4210	2.2000e-004	4.2200e-003	32.6861

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.541920	0.052620	0.169871	0.146633	0.025153	0.006100	0.012627	0.016953	0.000467	0.000322	0.022878	0.001103	0.003353

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0462	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.4000e-004
Unmitigated	0.0462	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.4000e-004

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	0.0113					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0349					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.4000e-004
Total	0.0462	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.4000e-004

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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	0.0113					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0349					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.4000e-004
Total	0.0462	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.4000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Name

Prioritization Calculator

Applicability	Use to provide a Prioritization score based on the emission potency method. Entries required in yellow areas, output in gray areas.		
<i>Author or updater</i>	Seth Myers	<i>Last Update</i>	February 28, 2022
Facility:	Bellota Weir		
ID#:	CEQA		
Project #:	CEQA		
Unit and Process#	Construction		

Operating Hours hr/yr	8,760.00								
Receptor Proximity and Proximity Factors	Cancer Score	Chronic Score	Acute Score	Max Score	Receptor proximity is in meters. Prioritization scores are calculated by multiplying the total scores summed below by the proximity factors. Record the Max score for your receptor distance. If the substance list for the unit is longer than the number of rows here or if there are multiple processes use additional worksheets and sum the totals of the Max Prioritization score for each substance generated below. Totals on last row.				
	500≤R<1000 0.011	2.54E+00	3.77E-03	0.00E+00					2.54E+00
	1000≤R<1500 0.003	6.93E-01	1.03E-03	0.00E+00					6.93E-01
	1500≤R<2000 0.002	4.62E-01	6.85E-04	0.00E+00					4.62E-01
	2000<R 0.001	2.31E-01	3.42E-04	0.00E+00					2.31E-01
Construction		Enter the unit's CAS# of the substances emitted and their amounts.							
Substance	CAS#	Annual Emissions (lbs/yr)	Maximum Hourly (lbs/hr)	Average Hourly (lbs/hr)	Cancer	Chronic	Acute		
Diesel engine exhaust, particulate matter (Diesel PM)	9901	1.00E+02		1.14E-02	2.31E+02	3.42E-01	0.00E+00		
				0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Totals					2.31E+02	3.42E-01	0.00E+00		

Notes: The nearest sensitive receptor is located more than 600 feet from the center of the construction site.