

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Annual

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

**Raley Boulevard and Diesel Drive Warehouses Project
Sacramento County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	42.00	1000sqft	0.96	42,000.00	0
Unrefrigerated Warehouse-No Rail	25.50	1000sqft	0.59	25,500.00	0
Other Non-Asphalt Surfaces	2.90	Acre	2.90	126,324.00	0
Parking Lot	57.00	Space	0.51	22,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2023
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	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 scheduled modified to reflect Project specifics

Off-road Equipment - Modified to reflect the conservative Project specifics

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Off-road Equipment - Modified to reflect the conservative Project specifics

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Trips and VMT -

Grading - Applicant Provided Information

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Architectural Coating - Applicant Provided Information

Area Coating - Applicant Provided Information

Energy Use - no natural gas use

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	101,250.00	0.00
tblAreaCoating	Area_Nonresidential_Interior	101250	0
tblAreaCoating	Area_Parking	8947	1368
tblConstructionPhase	NumDays	18.00	70.00
tblConstructionPhase	NumDays	230.00	80.00
tblConstructionPhase	NumDays	8.00	50.00
tblConstructionPhase	NumDays	18.00	25.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblEnergyUse	T24NG	0.49	0.00
tblFleetMix	HHD	9.3060e-003	0.00
tblFleetMix	HHD	9.3060e-003	0.00
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	6.0930e-003	0.00
tblFleetMix	LHD2	6.0930e-003	0.00

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tblFleetMix	MCY	0.03	0.00
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.5070e-003	0.00
tblFleetMix	MH	3.5070e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	9.4200e-004	0.00
tblFleetMix	OBUS	9.4200e-004	0.00
tblFleetMix	SBUS	1.0060e-003	0.00
tblFleetMix	SBUS	1.0060e-003	0.00
tblFleetMix	UBUS	5.4800e-004	0.00
tblFleetMix	UBUS	5.4800e-004	0.00
tblGrading	AcresOfGrading	250.00	15.00
tblGrading	MaterialExported	0.00	13,321.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00

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2.0 Emissions Summary

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					
2023	0.4210	3.1935	3.1958	7.0800e-003	0.0720	0.1311	0.2032	0.0181	0.1212	0.1393	0.0000	628.2642	628.2642	0.1656	0.0130	636.2909
Maximum	0.4210	3.1935	3.1958	7.0800e-003	0.0720	0.1311	0.2032	0.0181	0.1212	0.1393	0.0000	628.2642	628.2642	0.1656	0.0130	636.2909

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					
2023	0.4210	3.1935	3.1958	7.0800e-003	0.0720	0.1311	0.2032	0.0181	0.1212	0.1393	0.0000	628.2636	628.2636	0.1656	0.0130	636.2903
Maximum	0.4210	3.1935	3.1958	7.0800e-003	0.0720	0.1311	0.2032	0.0181	0.1212	0.1393	0.0000	628.2636	628.2636	0.1656	0.0130	636.2903

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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	3-1-2023	5-31-2023	2.3437	2.3437
2	6-1-2023	8-31-2023	0.9368	0.9368
3	9-1-2023	9-30-2023	0.2424	0.2424
		Highest	2.3437	2.3437

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	0.2816	1.0000e-005	1.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1600e-003	3.1600e-003	1.0000e-005	0.0000	3.3700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	36.2596	36.2596	3.3400e-003	4.1000e-004	36.4639
Mobile	0.0000	0.0000	0.0000	0.0000	0.1084	0.0000	0.1084	0.0266	0.0000	0.0266	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	12.8798	0.0000	12.8798	0.7612	0.0000	31.9091
Water						0.0000	0.0000		0.0000	0.0000	5.5226	12.6289	18.1515	0.0202	0.0122	22.2769
Total	0.2816	1.0000e-005	1.6300e-003	0.0000	0.1084	1.0000e-005	0.1084	0.0266	1.0000e-005	0.0266	18.4024	48.8917	67.2941	0.7847	0.0126	90.6532

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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	0.2816	1.0000e-005	1.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1600e-003	3.1600e-003	1.0000e-005	0.0000	3.3700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	36.2596	36.2596	3.3400e-003	4.1000e-004	36.4639
Mobile	0.0000	0.0000	0.0000	0.0000	0.1084	0.0000	0.1084	0.0266	0.0000	0.0266	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	12.8798	0.0000	12.8798	0.7612	0.0000	31.9091
Water						0.0000	0.0000		0.0000	0.0000	5.5226	12.6289	18.1515	0.0202	0.0122	22.2769
Total	0.2816	1.0000e-005	1.6300e-003	0.0000	0.1084	1.0000e-005	0.1084	0.0266	1.0000e-005	0.0266	18.4024	48.8917	67.2941	0.7847	0.0126	90.6532

	ROG	NOx	CO	SO2	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	Sewer/Foundations	Grading	3/1/2023	4/19/2023	7	50	
2	Building Construction	Building Construction	4/20/2023	7/8/2023	7	80	
3	Paving	Paving	7/9/2023	8/2/2023	7	25	

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4	Landscaping/Architectural Coating	Architectural Coating	8/3/2023	10/11/2023	7	70
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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15

Acres of Paving: 3.41

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 33,750; Striped Parking Area: 8,947 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Sewer/Foundations	Crawler Tractors	1	8.00	212	0.43
Sewer/Foundations	Excavators	2	8.00	158	0.38
Sewer/Foundations	Graders	1	8.00	187	0.41
Sewer/Foundations	Off-Highway Tractors	1	8.00	124	0.44
Sewer/Foundations	Other Construction Equipment	1	8.00	172	0.42
Sewer/Foundations	Plate Compactors	1	8.00	8	0.43
Sewer/Foundations	Rubber Tired Dozers	0	8.00	247	0.40
Sewer/Foundations	Rubber Tired Loaders	1	8.00	203	0.36
Sewer/Foundations	Scrapers	4	8.00	367	0.48
Sewer/Foundations	Skid Steer Loaders	1	8.00	65	0.37
Sewer/Foundations	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Crawler Tractors	1	8.00	212	0.43
Building Construction	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Off-Highway Tractors	1	8.00	124	0.44
Building Construction	Other Construction Equipment	1	8.00	172	0.42
Building Construction	Plate Compactors	1	8.00	8	0.43

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Building Construction	Rubber Tired Loaders	1	8.00	203	0.36
Building Construction	Skid Steer Loaders	1	8.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Plate Compactors	1	8.00	8	0.43
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Landscaping/Architectural Coating	Air Compressors	1	8.00	78	0.48
Landscaping/Architectural Coating	Off-Highway Tractors	1	8.00	124	0.44
Landscaping/Architectural Coating	Other Construction Equipment	1	8.00	172	0.42
Landscaping/Architectural Coating	Plate Compactors	1	8.00	8	0.43
Landscaping/Architectural Coating	Sweepers/Scrubbers	1	8.00	64	0.46
Landscaping/Architectural Coating	Tractors/Loaders/Backhoes	2	8.00	97	0.37

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
Sewer/Foundations	15	38.00	0.00	1,665.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	91.00	36.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Landscaping/Architectural Coating	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Sewer/Foundations - 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					9.3300e-003	0.0000	9.3300e-003	1.0700e-003	0.0000	1.0700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1393	1.4501	1.2399	2.7900e-003		0.0585	0.0585		0.0539	0.0539	0.0000	244.4170	244.4170	0.0789	0.0000	246.3890
Total	0.1393	1.4501	1.2399	2.7900e-003	9.3300e-003	0.0585	0.0679	1.0700e-003	0.0539	0.0549	0.0000	244.4170	244.4170	0.0789	0.0000	246.3890

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	2.2100e-003	0.1325	0.0266	5.2000e-004	0.0141	9.7000e-004	0.0151	3.8700e-003	9.2000e-004	4.7900e-003	0.0000	51.7236	51.7236	2.0600e-003	8.2000e-003	54.2191
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	2.7200e-003	1.6800e-003	0.0221	6.0000e-005	6.9800e-003	4.0000e-005	7.0100e-003	1.8600e-003	3.0000e-005	1.8900e-003	0.0000	5.5279	5.5279	1.8000e-004	1.6000e-004	5.5800
Total	4.9300e-003	0.1342	0.0487	5.8000e-004	0.0211	1.0100e-003	0.0221	5.7300e-003	9.5000e-004	6.6800e-003	0.0000	57.2516	57.2516	2.2400e-003	8.3600e-003	59.7991

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3.2 Sewer/Foundations - 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					9.3300e-003	0.0000	9.3300e-003	1.0700e-003	0.0000	1.0700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1393	1.4501	1.2399	2.7900e-003		0.0585	0.0585		0.0539	0.0539	0.0000	244.4168	244.4168	0.0789	0.0000	246.3887
Total	0.1393	1.4501	1.2399	2.7900e-003	9.3300e-003	0.0585	0.0679	1.0700e-003	0.0539	0.0549	0.0000	244.4168	244.4168	0.0789	0.0000	246.3887

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	2.2100e-003	0.1325	0.0266	5.2000e-004	0.0141	9.7000e-004	0.0151	3.8700e-003	9.2000e-004	4.7900e-003	0.0000	51.7236	51.7236	2.0600e-003	8.2000e-003	54.2191
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	2.7200e-003	1.6800e-003	0.0221	6.0000e-005	6.9800e-003	4.0000e-005	7.0100e-003	1.8600e-003	3.0000e-005	1.8900e-003	0.0000	5.5279	5.5279	1.8000e-004	1.6000e-004	5.5800
Total	4.9300e-003	0.1342	0.0487	5.8000e-004	0.0211	1.0100e-003	0.0221	5.7300e-003	9.5000e-004	6.6800e-003	0.0000	57.2516	57.2516	2.2400e-003	8.3600e-003	59.7991

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3.3 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1026	0.9838	1.0432	2.0400e-003		0.0427	0.0427		0.0395	0.0395	0.0000	176.9601	176.9601	0.0553	0.0000	178.3437
Total	0.1026	0.9838	1.0432	2.0400e-003		0.0427	0.0427		0.0395	0.0395	0.0000	176.9601	176.9601	0.0553	0.0000	178.3437

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8800e-003	0.0702	0.0212	2.7000e-004	8.4300e-003	3.7000e-004	8.8000e-003	2.4400e-003	3.6000e-004	2.7900e-003	0.0000	26.7076	26.7076	6.6000e-004	3.9200e-003	27.8919
Worker	0.0104	6.4500e-003	0.0846	2.3000e-004	0.0267	1.4000e-004	0.0269	7.1100e-003	1.3000e-004	7.2400e-003	0.0000	21.1808	21.1808	6.8000e-004	6.1000e-004	21.3804
Total	0.0123	0.0766	0.1058	5.0000e-004	0.0352	5.1000e-004	0.0357	9.5500e-003	4.9000e-004	0.0100	0.0000	47.8883	47.8883	1.3400e-003	4.5300e-003	49.2722

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3.3 Building 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					
Off-Road	0.1026	0.9838	1.0432	2.0400e-003		0.0427	0.0427		0.0395	0.0395	0.0000	176.9598	176.9598	0.0553	0.0000	178.3434
Total	0.1026	0.9838	1.0432	2.0400e-003		0.0427	0.0427		0.0395	0.0395	0.0000	176.9598	176.9598	0.0553	0.0000	178.3434

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8800e-003	0.0702	0.0212	2.7000e-004	8.4300e-003	3.7000e-004	8.8000e-003	2.4400e-003	3.6000e-004	2.7900e-003	0.0000	26.7076	26.7076	6.6000e-004	3.9200e-003	27.8919
Worker	0.0104	6.4500e-003	0.0846	2.3000e-004	0.0267	1.4000e-004	0.0269	7.1100e-003	1.3000e-004	7.2400e-003	0.0000	21.1808	21.1808	6.8000e-004	6.1000e-004	21.3804
Total	0.0123	0.0766	0.1058	5.0000e-004	0.0352	5.1000e-004	0.0357	9.5500e-003	4.9000e-004	0.0100	0.0000	47.8883	47.8883	1.3400e-003	4.5300e-003	49.2722

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Annual

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

3.4 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0134	0.1300	0.1766	2.7000e-004		6.4900e-003	6.4900e-003		6.0000e-003	6.0000e-003	0.0000	23.2018	23.2018	7.2900e-003	0.0000	23.3841
Paving	6.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0141	0.1300	0.1766	2.7000e-004		6.4900e-003	6.4900e-003		6.0000e-003	6.0000e-003	0.0000	23.2018	23.2018	7.2900e-003	0.0000	23.3841

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	7.2000e-004	4.4000e-004	5.8100e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.4547	1.4547	5.0000e-005	4.0000e-005	1.4684
Total	7.2000e-004	4.4000e-004	5.8100e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.4547	1.4547	5.0000e-005	4.0000e-005	1.4684

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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 Paving - 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					
Off-Road	0.0134	0.1300	0.1766	2.7000e-004		6.4900e-003	6.4900e-003		6.0000e-003	6.0000e-003	0.0000	23.2018	23.2018	7.2900e-003	0.0000	23.3841
Paving	6.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0141	0.1300	0.1766	2.7000e-004		6.4900e-003	6.4900e-003		6.0000e-003	6.0000e-003	0.0000	23.2018	23.2018	7.2900e-003	0.0000	23.3841

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	7.2000e-004	4.4000e-004	5.8100e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.4547	1.4547	5.0000e-005	4.0000e-005	1.4684
Total	7.2000e-004	4.4000e-004	5.8100e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.4547	1.4547	5.0000e-005	4.0000e-005	1.4684

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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 Landscaping/Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0990					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0463	0.4172	0.5612	8.4000e-004		0.0219	0.0219		0.0204	0.0204	0.0000	73.4248	73.4248	0.0204	0.0000	73.9340
Total	0.1452	0.4172	0.5612	8.4000e-004		0.0219	0.0219		0.0204	0.0204	0.0000	73.4248	73.4248	0.0204	0.0000	73.9340

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	1.8100e-003	1.1200e-003	0.0147	4.0000e-005	4.6300e-003	2.0000e-005	4.6500e-003	1.2300e-003	2.0000e-005	1.2500e-003	0.0000	3.6659	3.6659	1.2000e-004	1.1000e-004	3.7005
Total	1.8100e-003	1.1200e-003	0.0147	4.0000e-005	4.6300e-003	2.0000e-005	4.6500e-003	1.2300e-003	2.0000e-005	1.2500e-003	0.0000	3.6659	3.6659	1.2000e-004	1.1000e-004	3.7005

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Annual

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

3.5 Landscaping/Architectural Coating - 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					
Archit. Coating	0.0990					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0463	0.4172	0.5612	8.4000e-004		0.0219	0.0219		0.0204	0.0204	0.0000	73.4247	73.4247	0.0204	0.0000	73.9339
Total	0.1452	0.4172	0.5612	8.4000e-004		0.0219	0.0219		0.0204	0.0204	0.0000	73.4247	73.4247	0.0204	0.0000	73.9339

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	1.8100e-003	1.1200e-003	0.0147	4.0000e-005	4.6300e-003	2.0000e-005	4.6500e-003	1.2300e-003	2.0000e-005	1.2500e-003	0.0000	3.6659	3.6659	1.2000e-004	1.1000e-004	3.7005
Total	1.8100e-003	1.1200e-003	0.0147	4.0000e-005	4.6300e-003	2.0000e-005	4.6500e-003	1.2300e-003	2.0000e-005	1.2500e-003	0.0000	3.6659	3.6659	1.2000e-004	1.1000e-004	3.7005

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.1084	0.0000	0.1084	0.0266	0.0000	0.0266	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.1084	0.0000	0.1084	0.0266	0.0000	0.0266	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		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	73.08	73.08	73.08	212,539	212,539
Unrefrigerated Warehouse-No Rail	44.37	44.37	44.37	129,042	129,042
Total	117.45	117.45	117.45	341,581	341,581

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	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	10.00	5.00	6.50	59.00	0.00	41.00	92	5	3

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Annual

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

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
Parking Lot	7980	1.2958	1.2000e-004	1.0000e-005	1.3031
Unrefrigerated Warehouse-No Rail	133980	21.7553	2.0100e-003	2.4000e-004	21.8779
Unrefrigerated Warehouse-No Rail	81345	13.2086	1.2200e-003	1.5000e-004	13.2830
Total		36.2596	3.3500e-003	4.0000e-004	36.4639

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Annual

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

5.3 Energy by Land Use - Electricity

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
Parking Lot	7980	1.2958	1.2000e-004	1.0000e-005	1.3031
Unrefrigerated Warehouse-No Rail	133980	21.7553	2.0100e-003	2.4000e-004	21.8779
Unrefrigerated Warehouse-No Rail	81345	13.2086	1.2200e-003	1.5000e-004	13.2830
Total		36.2596	3.3500e-003	4.0000e-004	36.4639

6.0 Area Detail

6.1 Mitigation Measures Area

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.2816	1.0000e-005	1.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1600e-003	3.1600e-003	1.0000e-005	0.0000	3.3700e-003
Unmitigated	0.2816	1.0000e-005	1.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1600e-003	3.1600e-003	1.0000e-005	0.0000	3.3700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	8.1400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2733					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.5000e-004	1.0000e-005	1.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1600e-003	3.1600e-003	1.0000e-005	0.0000	3.3700e-003
Total	0.2816	1.0000e-005	1.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1600e-003	3.1600e-003	1.0000e-005	0.0000	3.3700e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	8.1400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2733					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.5000e-004	1.0000e-005	1.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1600e-003	3.1600e-003	1.0000e-005	0.0000	3.3700e-003
Total	0.2816	1.0000e-005	1.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1600e-003	3.1600e-003	1.0000e-005	0.0000	3.3700e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	18.1515	0.0202	0.0122	22.2769
Unmitigated	18.1515	0.0202	0.0122	22.2769

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
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	15.6094 / 0	18.1515	0.0202	0.0122	22.2769
Total		18.1515	0.0202	0.0122	22.2769

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Annual

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

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
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	15.6094 / 0	18.1515	0.0202	0.0122	22.2769
Total		18.1515	0.0202	0.0122	22.2769

8.0 Waste Detail

8.1 Mitigation Measures Waste

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	12.8798	0.7612	0.0000	31.9091
Unmitigated	12.8798	0.7612	0.0000	31.9091

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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	63.45	12.8798	0.7612	0.0000	31.9091
Total		12.8798	0.7612	0.0000	31.9091

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Annual

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

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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	63.45	12.8798	0.7612	0.0000	31.9091
Total		12.8798	0.7612	0.0000	31.9091

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
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Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Annual

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

11.0 Vegetation

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Summer

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

**Raley Boulevard and Diesel Drive Warehouses Project
Sacramento County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	42.00	1000sqft	0.96	42,000.00	0
Unrefrigerated Warehouse-No Rail	25.50	1000sqft	0.59	25,500.00	0
Other Non-Asphalt Surfaces	2.90	Acre	2.90	126,324.00	0
Parking Lot	57.00	Space	0.51	22,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2023
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	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 scheduled modified to reflect Project specifics
- Off-road Equipment - Modified to reflect the conservative Project specifics
- Off-road Equipment - Modified to reflect the conservative Project specifics
- Off-road Equipment - Modified to reflect the conservative Project specifics
- Off-road Equipment - Modified to reflect the conservative Project specifics
- Trips and VMT -
- Grading - Applicant Provided Information

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Summer

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

Architectural Coating - Applicant Provided Information

Area Coating - Applicant Provided Information

Energy Use - no natural gas use

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	101,250.00	0.00
tblAreaCoating	Area_Nonresidential_Interior	101250	0
tblAreaCoating	Area_Parking	8947	1368
tblConstructionPhase	NumDays	18.00	70.00
tblConstructionPhase	NumDays	230.00	80.00
tblConstructionPhase	NumDays	8.00	50.00
tblConstructionPhase	NumDays	18.00	25.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblEnergyUse	T24NG	0.49	0.00
tblFleetMix	HHD	9.3060e-003	0.00
tblFleetMix	HHD	9.3060e-003	0.00
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	6.0930e-003	0.00
tblFleetMix	LHD2	6.0930e-003	0.00

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Summer

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

tblFleetMix	MCY	0.03	0.00
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.5070e-003	0.00
tblFleetMix	MH	3.5070e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	9.4200e-004	0.00
tblFleetMix	OBUS	9.4200e-004	0.00
tblFleetMix	SBUS	1.0060e-003	0.00
tblFleetMix	SBUS	1.0060e-003	0.00
tblFleetMix	UBUS	5.4800e-004	0.00
tblFleetMix	UBUS	5.4800e-004	0.00
tblGrading	AcresOfGrading	250.00	15.00
tblGrading	MaterialExported	0.00	13,321.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Summer

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

2.0 Emissions Summary

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					
2023	5.7906	63.0725	51.6848	0.1350	1.2430	2.3810	3.6240	0.2784	2.1927	2.4711	0.0000	13,324.1200	13,324.1200	3.5763	0.3682	13,523.2360
Maximum	5.7906	63.0725	51.6848	0.1350	1.2430	2.3810	3.6240	0.2784	2.1927	2.4711	0.0000	13,324.1200	13,324.1200	3.5763	0.3682	13,523.2360

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					
2023	5.7906	63.0725	51.6848	0.1350	1.2430	2.3810	3.6240	0.2784	2.1927	2.4711	0.0000	13,324.1200	13,324.1200	3.5763	0.3682	13,523.2360
Maximum	5.7906	63.0725	51.6848	0.1350	1.2430	2.3810	3.6240	0.2784	2.1927	2.4711	0.0000	13,324.1200	13,324.1200	3.5763	0.3682	13,523.2360

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.5431	1.2000e-004	0.0130	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0279	0.0279	7.0000e-005		0.0297
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.6203	0.0000	0.6203	0.1523	0.0000	0.1523		0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.5431	1.2000e-004	0.0130	0.0000	0.6203	5.0000e-005	0.6204	0.1523	5.0000e-005	0.1523		0.0279	0.0279	7.0000e-005	0.0000	0.0297

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.5431	1.2000e-004	0.0130	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0279	0.0279	7.0000e-005		0.0297
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.6203	0.0000	0.6203	0.1523	0.0000	0.1523		0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.5431	1.2000e-004	0.0130	0.0000	0.6203	5.0000e-005	0.6204	0.1523	5.0000e-005	0.1523		0.0279	0.0279	7.0000e-005	0.0000	0.0297

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	Sewer/Foundations	Grading	3/1/2023	4/19/2023	7	50	
2	Building Construction	Building Construction	4/20/2023	7/8/2023	7	80	
3	Paving	Paving	7/9/2023	8/2/2023	7	25	
4	Landscaping/Architectural Coating	Architectural Coating	8/3/2023	10/11/2023	7	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15

Acres of Paving: 3.41

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 33,750; Striped Parking Area: 8,947 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Sewer/Foundations	Crawler Tractors	1	8.00	212	0.43
Sewer/Foundations	Excavators	2	8.00	158	0.38
Sewer/Foundations	Graders	1	8.00	187	0.41
Sewer/Foundations	Off-Highway Tractors	1	8.00	124	0.44
Sewer/Foundations	Other Construction Equipment	1	8.00	172	0.42
Sewer/Foundations	Plate Compactors	1	8.00	8	0.43
Sewer/Foundations	Rubber Tired Dozers	0	8.00	247	0.40

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Summer

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

Sewer/Foundations	Rubber Tired Loaders	1	8.00	203	0.36
Sewer/Foundations	Scrapers	4	8.00	367	0.48
Sewer/Foundations	Skid Steer Loaders	1	8.00	65	0.37
Sewer/Foundations	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Crawler Tractors	1	8.00	212	0.43
Building Construction	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Off-Highway Tractors	1	8.00	124	0.44
Building Construction	Other Construction Equipment	1	8.00	172	0.42
Building Construction	Plate Compactors	1	8.00	8	0.43
Building Construction	Rubber Tired Loaders	1	8.00	203	0.36
Building Construction	Skid Steer Loaders	1	8.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Plate Compactors	1	8.00	8	0.43
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Landscaping/Architectural Coating	Air Compressors	1	8.00	78	0.48
Landscaping/Architectural Coating	Off-Highway Tractors	1	8.00	124	0.44
Landscaping/Architectural Coating	Other Construction Equipment	1	8.00	172	0.42
Landscaping/Architectural Coating	Plate Compactors	1	8.00	8	0.43
Landscaping/Architectural Coating	Sweepers/Scrubbers	1	8.00	64	0.46
Landscaping/Architectural Coating	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Summer

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

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
Sewer/Foundations	15	38.00	0.00	1,665.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	91.00	36.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Landscaping/Architectural Coating	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Sewer/Foundations - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3733	0.0000	0.3733	0.0427	0.0000	0.0427			0.0000			0.0000
Off-Road	5.5723	58.0057	49.5955	0.1114		2.3409	2.3409		2.1544	2.1544		10,776.9466	10,776.9466	3.4779		10,863.8943
Total	5.5723	58.0057	49.5955	0.1114	0.3733	2.3409	2.7142	0.0427	2.1544	2.1971		10,776.9466	10,776.9466	3.4779		10,863.8943

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Summer

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

3.2 Sewer/Foundations - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0904	5.0053	1.0565	0.0209	0.5807	0.0386	0.6193	0.1590	0.0369	0.1959		2,280.0768	2,280.0768	0.0909	0.3615	2,390.0803
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	0.1280	0.0615	1.0328	2.6400e-003	0.2891	1.4900e-003	0.2906	0.0767	1.3700e-003	0.0781		267.0966	267.0966	7.4200e-003	6.6400e-003	269.2614
Total	0.2183	5.0668	2.0893	0.0235	0.8698	0.0401	0.9098	0.2357	0.0383	0.2740		2,547.1734	2,547.1734	0.0983	0.3682	2,659.3416

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					0.3733	0.0000	0.3733	0.0427	0.0000	0.0427			0.0000			0.0000
Off-Road	5.5723	58.0057	49.5954	0.1114		2.3409	2.3409		2.1544	2.1544	0.0000	10,776.9465	10,776.9465	3.4779		10,863.8943
Total	5.5723	58.0057	49.5954	0.1114	0.3733	2.3409	2.7142	0.0427	2.1544	2.1971	0.0000	10,776.9465	10,776.9465	3.4779		10,863.8943

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Summer

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

3.2 Sewer/Foundations - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0904	5.0053	1.0565	0.0209	0.5807	0.0386	0.6193	0.1590	0.0369	0.1959		2,280.0768	2,280.0768	0.0909	0.3615	2,390.0803
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	0.1280	0.0615	1.0328	2.6400e-003	0.2891	1.4900e-003	0.2906	0.0767	1.3700e-003	0.0781		267.0966	267.0966	7.4200e-003	6.6400e-003	269.2614
Total	0.2183	5.0668	2.0893	0.0235	0.8698	0.0401	0.9098	0.2357	0.0383	0.2740		2,547.1734	2,547.1734	0.0983	0.3682	2,659.3416

3.3 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5659	24.5943	26.0800	0.0509		1.0666	1.0666		0.9865	0.9865		4,876.6266	4,876.6266	1.5252		4,914.7557
Total	2.5659	24.5943	26.0800	0.0509		1.0666	1.0666		0.9865	0.9865		4,876.6266	4,876.6266	1.5252		4,914.7557

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Summer

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

3.3 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0482	1.6669	0.5189	6.8600e-003	0.2169	9.3100e-003	0.2262	0.0624	8.9000e-003	0.0713		735.7832	735.7832	0.0182	0.1079	768.3787
Worker	0.3065	0.1472	2.4733	6.3300e-003	0.6922	3.5600e-003	0.6958	0.1836	3.2800e-003	0.1869		639.6262	639.6262	0.0178	0.0159	644.8101
Total	0.3546	1.8142	2.9923	0.0132	0.9091	0.0129	0.9220	0.2461	0.0122	0.2582		1,375.4093	1,375.4093	0.0360	0.1238	1,413.1888

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	2.5659	24.5943	26.0800	0.0509		1.0666	1.0666		0.9865	0.9865	0.0000	4,876.6266	4,876.6266	1.5252		4,914.7557
Total	2.5659	24.5943	26.0800	0.0509		1.0666	1.0666		0.9865	0.9865	0.0000	4,876.6266	4,876.6266	1.5252		4,914.7557

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Summer

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

3.3 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0482	1.6669	0.5189	6.8600e-003	0.2169	9.3100e-003	0.2262	0.0624	8.9000e-003	0.0713		735.7832	735.7832	0.0182	0.1079	768.3787
Worker	0.3065	0.1472	2.4733	6.3300e-003	0.6922	3.5600e-003	0.6958	0.1836	3.2800e-003	0.1869		639.6262	639.6262	0.0178	0.0159	644.8101
Total	0.3546	1.8142	2.9923	0.0132	0.9091	0.0129	0.9220	0.2461	0.0122	0.2582		1,375.4093	1,375.4093	0.0360	0.1238	1,413.1888

3.4 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0717	10.3968	14.1258	0.0215		0.5194	0.5194		0.4798	0.4798		2,046.0484	2,046.0484	0.6431		2,062.1251
Paving	0.0535					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1251	10.3968	14.1258	0.0215		0.5194	0.5194		0.4798	0.4798		2,046.0484	2,046.0484	0.6431		2,062.1251

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Summer

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

3.4 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0674	0.0324	0.5436	1.3900e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		140.5772	140.5772	3.9100e-003	3.5000e-003	141.7165
Total	0.0674	0.0324	0.5436	1.3900e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		140.5772	140.5772	3.9100e-003	3.5000e-003	141.7165

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	1.0717	10.3968	14.1258	0.0215		0.5194	0.5194		0.4798	0.4798	0.0000	2,046.0484	2,046.0484	0.6431		2,062.1251
Paving	0.0535					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1251	10.3968	14.1258	0.0215		0.5194	0.5194		0.4798	0.4798	0.0000	2,046.0484	2,046.0484	0.6431		2,062.1251

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Summer

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

3.4 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0674	0.0324	0.5436	1.3900e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		140.5772	140.5772	3.9100e-003	3.5000e-003	141.7165
Total	0.0674	0.0324	0.5436	1.3900e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		140.5772	140.5772	3.9100e-003	3.5000e-003	141.7165

3.5 Landscaping/Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.8272					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.3223	11.9211	16.0338	0.0241		0.6257	0.6257		0.5840	0.5840		2,312.4863	2,312.4863	0.6414		2,328.5217
Total	4.1494	11.9211	16.0338	0.0241		0.6257	0.6257		0.5840	0.5840		2,312.4863	2,312.4863	0.6414		2,328.5217

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Summer

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

3.5 Landscaping/Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0606	0.0291	0.4892	1.2500e-003	0.1369	7.0000e-004	0.1376	0.0363	6.5000e-004	0.0370		126.5195	126.5195	3.5200e-003	3.1500e-003	127.5449
Total	0.0606	0.0291	0.4892	1.2500e-003	0.1369	7.0000e-004	0.1376	0.0363	6.5000e-004	0.0370		126.5195	126.5195	3.5200e-003	3.1500e-003	127.5449

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	2.8272					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.3223	11.9211	16.0338	0.0241		0.6257	0.6257		0.5840	0.5840	0.0000	2,312.4863	2,312.4863	0.6414		2,328.5217
Total	4.1494	11.9211	16.0338	0.0241		0.6257	0.6257		0.5840	0.5840	0.0000	2,312.4863	2,312.4863	0.6414		2,328.5217

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Summer

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

3.5 Landscaping/Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0606	0.0291	0.4892	1.2500e-003	0.1369	7.0000e-004	0.1376	0.0363	6.5000e-004	0.0370		126.5195	126.5195	3.5200e-003	3.1500e-003	127.5449
Total	0.0606	0.0291	0.4892	1.2500e-003	0.1369	7.0000e-004	0.1376	0.0363	6.5000e-004	0.0370		126.5195	126.5195	3.5200e-003	3.1500e-003	127.5449

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	0.0000	0.0000	0.0000	0.6203	0.0000	0.6203	0.1523	0.0000	0.1523		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.6203	0.0000	0.6203	0.1523	0.0000	0.1523		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		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	73.08	73.08	73.08	212,539	212,539
Unrefrigerated Warehouse-No Rail	44.37	44.37	44.37	129,042	129,042
Total	117.45	117.45	117.45	341,581	341,581

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	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	10.00	5.00	6.50	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	10.00	5.00	6.50	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Summer

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.538353	0.056973	0.184081	0.133246	0.026575	0.006093	0.013235	0.009306	0.000942	0.000548	0.026135	0.001006	0.003507
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.5431	1.2000e-004	0.0130	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0279	0.0279	7.0000e-005		0.0297
Unmitigated	1.5431	1.2000e-004	0.0130	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0279	0.0279	7.0000e-005		0.0297

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0446					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4973					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2000e-003	1.2000e-004	0.0130	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0279	0.0279	7.0000e-005		0.0297
Total	1.5431	1.2000e-004	0.0130	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0279	0.0279	7.0000e-005		0.0297

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0446					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4973					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2000e-003	1.2000e-004	0.0130	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0279	0.0279	7.0000e-005		0.0297
Total	1.5431	1.2000e-004	0.0130	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0279	0.0279	7.0000e-005		0.0297

7.0 Water Detail

7.1 Mitigation Measures Water

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Summer

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

Boilers

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Winter

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

**Raley Boulevard and Diesel Drive Warehouses Project
Sacramento County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	42.00	1000sqft	0.96	42,000.00	0
Unrefrigerated Warehouse-No Rail	25.50	1000sqft	0.59	25,500.00	0
Other Non-Asphalt Surfaces	2.90	Acre	2.90	126,324.00	0
Parking Lot	57.00	Space	0.51	22,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2023
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	357.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - Project scheduled modified to reflect Project specifics
- Off-road Equipment - Modified to reflect the conservative Project specifics
- Off-road Equipment - Modified to reflect the conservative Project specifics
- Off-road Equipment - Modified to reflect the conservative Project specifics
- Off-road Equipment - Modified to reflect the conservative Project specifics
- Trips and VMT -
- Grading - Applicant Provided Information

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Winter

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

Architectural Coating - Applicant Provided Information

Area Coating - Applicant Provided Information

Energy Use - no natural gas use

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	101,250.00	0.00
tblAreaCoating	Area_Nonresidential_Interior	101250	0
tblAreaCoating	Area_Parking	8947	1368
tblConstructionPhase	NumDays	18.00	70.00
tblConstructionPhase	NumDays	230.00	80.00
tblConstructionPhase	NumDays	8.00	50.00
tblConstructionPhase	NumDays	18.00	25.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblEnergyUse	T24NG	0.49	0.00
tblFleetMix	HHD	9.3060e-003	0.00
tblFleetMix	HHD	9.3060e-003	0.00
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	6.0930e-003	0.00
tblFleetMix	LHD2	6.0930e-003	0.00

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Winter

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

tblFleetMix	MCY	0.03	0.00
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.5070e-003	0.00
tblFleetMix	MH	3.5070e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	9.4200e-004	0.00
tblFleetMix	OBUS	9.4200e-004	0.00
tblFleetMix	SBUS	1.0060e-003	0.00
tblFleetMix	SBUS	1.0060e-003	0.00
tblFleetMix	UBUS	5.4800e-004	0.00
tblFleetMix	UBUS	5.4800e-004	0.00
tblGrading	AcresOfGrading	250.00	15.00
tblGrading	MaterialExported	0.00	13,321.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Winter

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

2.0 Emissions Summary

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					
2023	5.7717	63.4930	51.5707	0.1347	1.2430	2.3811	3.6242	0.2784	2.1929	2.4713	0.0000	13,295.91 24	13,295.91 24	3.5772	0.3694	13,495.40 81
Maximum	5.7717	63.4930	51.5707	0.1347	1.2430	2.3811	3.6242	0.2784	2.1929	2.4713	0.0000	13,295.91 24	13,295.91 24	3.5772	0.3694	13,495.40 81

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					
2023	5.7717	63.4930	51.5707	0.1347	1.2430	2.3811	3.6242	0.2784	2.1929	2.4713	0.0000	13,295.91 24	13,295.91 24	3.5772	0.3694	13,495.40 81
Maximum	5.7717	63.4930	51.5707	0.1347	1.2430	2.3811	3.6242	0.2784	2.1929	2.4713	0.0000	13,295.91 24	13,295.91 24	3.5772	0.3694	13,495.40 81

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.5431	1.2000e-004	0.0130	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0279	0.0279	7.0000e-005		0.0297
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.6203	0.0000	0.6203	0.1523	0.0000	0.1523		0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.5431	1.2000e-004	0.0130	0.0000	0.6203	5.0000e-005	0.6204	0.1523	5.0000e-005	0.1523		0.0279	0.0279	7.0000e-005	0.0000	0.0297

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.5431	1.2000e-004	0.0130	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0279	0.0279	7.0000e-005		0.0297
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.6203	0.0000	0.6203	0.1523	0.0000	0.1523		0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.5431	1.2000e-004	0.0130	0.0000	0.6203	5.0000e-005	0.6204	0.1523	5.0000e-005	0.1523		0.0279	0.0279	7.0000e-005	0.0000	0.0297

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	Sewer/Foundations	Grading	3/1/2023	4/19/2023	7	50	
2	Building Construction	Building Construction	4/20/2023	7/8/2023	7	80	
3	Paving	Paving	7/9/2023	8/2/2023	7	25	
4	Landscaping/Architectural Coating	Architectural Coating	8/3/2023	10/11/2023	7	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15

Acres of Paving: 3.41

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 33,750; Striped Parking Area: 8,947 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Sewer/Foundations	Crawler Tractors	1	8.00	212	0.43
Sewer/Foundations	Excavators	2	8.00	158	0.38
Sewer/Foundations	Graders	1	8.00	187	0.41
Sewer/Foundations	Off-Highway Tractors	1	8.00	124	0.44
Sewer/Foundations	Other Construction Equipment	1	8.00	172	0.42
Sewer/Foundations	Plate Compactors	1	8.00	8	0.43
Sewer/Foundations	Rubber Tired Dozers	0	8.00	247	0.40

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Winter

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

Sewer/Foundations	Rubber Tired Loaders	1	8.00	203	0.36
Sewer/Foundations	Scrapers	4	8.00	367	0.48
Sewer/Foundations	Skid Steer Loaders	1	8.00	65	0.37
Sewer/Foundations	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Crawler Tractors	1	8.00	212	0.43
Building Construction	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Off-Highway Tractors	1	8.00	124	0.44
Building Construction	Other Construction Equipment	1	8.00	172	0.42
Building Construction	Plate Compactors	1	8.00	8	0.43
Building Construction	Rubber Tired Loaders	1	8.00	203	0.36
Building Construction	Skid Steer Loaders	1	8.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Plate Compactors	1	8.00	8	0.43
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Landscaping/Architectural Coating	Air Compressors	1	8.00	78	0.48
Landscaping/Architectural Coating	Off-Highway Tractors	1	8.00	124	0.44
Landscaping/Architectural Coating	Other Construction Equipment	1	8.00	172	0.42
Landscaping/Architectural Coating	Plate Compactors	1	8.00	8	0.43
Landscaping/Architectural Coating	Sweepers/Scrubbers	1	8.00	64	0.46
Landscaping/Architectural Coating	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Winter

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

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
Sewer/Foundations	15	38.00	0.00	1,665.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	91.00	36.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Landscaping/Architectural Coating	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Sewer/Foundations - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3733	0.0000	0.3733	0.0427	0.0000	0.0427			0.0000			0.0000
Off-Road	5.5723	58.0057	49.5955	0.1114		2.3409	2.3409		2.1544	2.1544		10,776.9466	10,776.9466	3.4779		10,863.8943
Total	5.5723	58.0057	49.5955	0.1114	0.3733	2.3409	2.7142	0.0427	2.1544	2.1971		10,776.9466	10,776.9466	3.4779		10,863.8943

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Winter

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

3.2 Sewer/Foundations - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0861	5.4119	1.0758	0.0209	0.5807	0.0387	0.6194	0.1590	0.0371	0.1961		2,281.3734	2,281.3734	0.0907	0.3617	2,391.4376
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	0.1133	0.0754	0.8995	2.3500e-003	0.2891	1.4900e-003	0.2906	0.0767	1.3700e-003	0.0781		237.5925	237.5925	8.5500e-003	7.6200e-003	240.0762
Total	0.1994	5.4873	1.9753	0.0233	0.8698	0.0402	0.9100	0.2357	0.0384	0.2741		2,518.9659	2,518.9659	0.0993	0.3694	2,631.5138

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					0.3733	0.0000	0.3733	0.0427	0.0000	0.0427			0.0000			0.0000
Off-Road	5.5723	58.0057	49.5954	0.1114		2.3409	2.3409		2.1544	2.1544	0.0000	10,776.9465	10,776.9465	3.4779		10,863.8943
Total	5.5723	58.0057	49.5954	0.1114	0.3733	2.3409	2.7142	0.0427	2.1544	2.1971	0.0000	10,776.9465	10,776.9465	3.4779		10,863.8943

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Winter

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

3.2 Sewer/Foundations - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0861	5.4119	1.0758	0.0209	0.5807	0.0387	0.6194	0.1590	0.0371	0.1961		2,281.3734	2,281.3734	0.0907	0.3617	2,391.4376
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	0.1133	0.0754	0.8995	2.3500e-003	0.2891	1.4900e-003	0.2906	0.0767	1.3700e-003	0.0781		237.5925	237.5925	8.5500e-003	7.6200e-003	240.0762
Total	0.1994	5.4873	1.9753	0.0233	0.8698	0.0402	0.9100	0.2357	0.0384	0.2741		2,518.9659	2,518.9659	0.0993	0.3694	2,631.5138

3.3 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5659	24.5943	26.0800	0.0509		1.0666	1.0666		0.9865	0.9865		4,876.6266	4,876.6266	1.5252		4,914.7557
Total	2.5659	24.5943	26.0800	0.0509		1.0666	1.0666		0.9865	0.9865		4,876.6266	4,876.6266	1.5252		4,914.7557

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Winter

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

3.3 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0466	1.7916	0.5426	6.8600e-003	0.2169	9.4100e-003	0.2263	0.0624	9.0000e-003	0.0714		736.3105	736.3105	0.0181	0.1081	768.9810
Worker	0.2714	0.1806	2.1541	5.6300e-003	0.6922	3.5600e-003	0.6958	0.1836	3.2800e-003	0.1869		568.9716	568.9716	0.0205	0.0182	574.9193
Total	0.3180	1.9722	2.6967	0.0125	0.9091	0.0130	0.9221	0.2461	0.0123	0.2583		1,305.2821	1,305.2821	0.0386	0.1264	1,343.9002

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	2.5659	24.5943	26.0800	0.0509		1.0666	1.0666		0.9865	0.9865	0.0000	4,876.6266	4,876.6266	1.5252		4,914.7557
Total	2.5659	24.5943	26.0800	0.0509		1.0666	1.0666		0.9865	0.9865	0.0000	4,876.6266	4,876.6266	1.5252		4,914.7557

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Winter

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

3.3 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0466	1.7916	0.5426	6.8600e-003	0.2169	9.4100e-003	0.2263	0.0624	9.0000e-003	0.0714		736.3105	736.3105	0.0181	0.1081	768.9810
Worker	0.2714	0.1806	2.1541	5.6300e-003	0.6922	3.5600e-003	0.6958	0.1836	3.2800e-003	0.1869		568.9716	568.9716	0.0205	0.0182	574.9193
Total	0.3180	1.9722	2.6967	0.0125	0.9091	0.0130	0.9221	0.2461	0.0123	0.2583		1,305.2821	1,305.2821	0.0386	0.1264	1,343.9002

3.4 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0717	10.3968	14.1258	0.0215		0.5194	0.5194		0.4798	0.4798		2,046.0484	2,046.0484	0.6431		2,062.1251
Paving	0.0535					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1251	10.3968	14.1258	0.0215		0.5194	0.5194		0.4798	0.4798		2,046.0484	2,046.0484	0.6431		2,062.1251

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Winter

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

3.4 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0597	0.0397	0.4734	1.2400e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		125.0487	125.0487	4.5000e-003	4.0100e-003	126.3559
Total	0.0597	0.0397	0.4734	1.2400e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		125.0487	125.0487	4.5000e-003	4.0100e-003	126.3559

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	1.0717	10.3968	14.1258	0.0215		0.5194	0.5194		0.4798	0.4798	0.0000	2,046.0484	2,046.0484	0.6431		2,062.1251
Paving	0.0535					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1251	10.3968	14.1258	0.0215		0.5194	0.5194		0.4798	0.4798	0.0000	2,046.0484	2,046.0484	0.6431		2,062.1251

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Winter

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

3.4 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0597	0.0397	0.4734	1.2400e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		125.0487	125.0487	4.5000e-003	4.0100e-003	126.3559
Total	0.0597	0.0397	0.4734	1.2400e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		125.0487	125.0487	4.5000e-003	4.0100e-003	126.3559

3.5 Landscaping/Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.8272					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.3223	11.9211	16.0338	0.0241		0.6257	0.6257		0.5840	0.5840		2,312.4863	2,312.4863	0.6414		2,328.5217
Total	4.1494	11.9211	16.0338	0.0241		0.6257	0.6257		0.5840	0.5840		2,312.4863	2,312.4863	0.6414		2,328.5217

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Winter

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

3.5 Landscaping/Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0537	0.0357	0.4261	1.1100e-003	0.1369	7.0000e-004	0.1376	0.0363	6.5000e-004	0.0370		112.5438	112.5438	4.0500e-003	3.6100e-003	113.7203
Total	0.0537	0.0357	0.4261	1.1100e-003	0.1369	7.0000e-004	0.1376	0.0363	6.5000e-004	0.0370		112.5438	112.5438	4.0500e-003	3.6100e-003	113.7203

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	2.8272					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.3223	11.9211	16.0338	0.0241		0.6257	0.6257		0.5840	0.5840	0.0000	2,312.4863	2,312.4863	0.6414		2,328.5217
Total	4.1494	11.9211	16.0338	0.0241		0.6257	0.6257		0.5840	0.5840	0.0000	2,312.4863	2,312.4863	0.6414		2,328.5217

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Winter

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

3.5 Landscaping/Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0537	0.0357	0.4261	1.1100e-003	0.1369	7.0000e-004	0.1376	0.0363	6.5000e-004	0.0370		112.5438	112.5438	4.0500e-003	3.6100e-003	113.7203
Total	0.0537	0.0357	0.4261	1.1100e-003	0.1369	7.0000e-004	0.1376	0.0363	6.5000e-004	0.0370		112.5438	112.5438	4.0500e-003	3.6100e-003	113.7203

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	0.0000	0.0000	0.0000	0.6203	0.0000	0.6203	0.1523	0.0000	0.1523		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.6203	0.0000	0.6203	0.1523	0.0000	0.1523		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		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	73.08	73.08	73.08	212,539	212,539
Unrefrigerated Warehouse-No Rail	44.37	44.37	44.37	129,042	129,042
Total	117.45	117.45	117.45	341,581	341,581

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	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	10.00	5.00	6.50	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	10.00	5.00	6.50	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Winter

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.538353	0.056973	0.184081	0.133246	0.026575	0.006093	0.013235	0.009306	0.000942	0.000548	0.026135	0.001006	0.003507
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Winter

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

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					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Winter

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas s 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					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.5431	1.2000e-004	0.0130	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0279	0.0279	7.0000e-005		0.0297
Unmitigated	1.5431	1.2000e-004	0.0130	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0279	0.0279	7.0000e-005		0.0297

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0446					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4973					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2000e-003	1.2000e-004	0.0130	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0279	0.0279	7.0000e-005		0.0297
Total	1.5431	1.2000e-004	0.0130	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0279	0.0279	7.0000e-005		0.0297

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0446					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4973					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2000e-003	1.2000e-004	0.0130	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0279	0.0279	7.0000e-005		0.0297
Total	1.5431	1.2000e-004	0.0130	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0279	0.0279	7.0000e-005		0.0297

7.0 Water Detail

7.1 Mitigation Measures Water

Raley Boulevard and Diesel Drive Warehouses Project - Sacramento County, Winter

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