Appendix A AIR QUALITY/GREENHOUSE GAS DATA



Parenthetical CALEEMOD Assumptions

For: San Sevaine Trail Date: June 2016

CONSTRUCTION

Site Preparation (2016)

• 27 days.

Equipment:

Quantity	Туре	Hours of Daily Operation
1	Rubber Tired Loader	8
2	Tractors/Loaders/Backhoes	8

Grading (2016)

- 3,565 cubic yards of import.
- 7,130 cubic yards of export.
- 54 days.

Equipment:

Quantity	Туре	Hours of Daily Operation
2	Excavators	8
1	Rubber Tired Dozer	8
1	Tractor/Loader/Backhoe	8

Paving (2016 – 2017)

• 10 days.

Equipment:

Quantity	Туре	Hours of Daily Operation
2	Cement and Mortar Mixers	6
1	Paver	8
2	Rollers	6
1	Tractor/Loader/Backhoe	8
2	Paving Equipment	6

Trail Installation (2017)

• 34 days.

Equipment:

Quantity	Type	Hours of Daily Operation
1	Air Compressor	8
3	Forklifts	8
1	Generator Set	8
3	Tractors/Loaders/Backhoes	7
1	Welder	8

Proposed Project

- Trail ProjectConstruction run only.

San Sevaine Trail - Construction

Date: 5/17/2016 2:16 PM

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Recreational	200.00	User Defined Unit	4.60	200,000.00	0

1.2 Other Project Characteristics

Urbanization Wind Speed (m/s) Precipitation Freq (Days) Urban 2.2 32 **Climate Zone**

10 **Operational Year** 2017

Utility Company Southern California Edison

CO2 Intensity 630.89 **CH4 Intensity** 0.029 **N2O Intensity** 0.006 (lb/MWhr) (lb/MWhr) (lb/MWhr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction only run.

Land Use - Trail project, construction only, no trip generating land use

Construction Phase - trail construction = 6 months

Off-road Equipment - equipment

Off-road Equipment -

Off-road Equipment - equipment

Grading - approx 3,565 cy grading and 7,130 cy of excavation

Construction Off-road Equipment Mitigation - per Rule 403

Off-road Equipment - equipment

Trips and VMT - grading hauling is cut and fill on site.

Table Name	Column Name	Default Value	New Value
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tblConstDustMitigation	CleanPavedRoadPercentReduction	0	16
tblConstructionPhase	NumDays	8.00	54.00
tblConstructionPhase	NumDays	18.00	10.00
tblConstructionPhase	NumDays	5.00	27.00
tblConstructionPhase	NumDays	230.00	34.00
tblGrading	AcresOfGrading	0.00	2.00
tblGrading	AcresOfGrading	0.00	2.00
tblGrading	MaterialExported	0.00	7,130.00
tblGrading	MaterialImported	0.00	3,565.00
tblLandUse	LandUseSquareFeet	0.00	200,000.00
tblLandUse	LotAcreage	0.00	4.60
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblTripsAndVMT	HaulingTripLength	20.00	1.00

2.0 Emissions Summary

2.1 Overall Construction Unmitigated Construction

	ROG	NOx	СО	SO2	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					ton	s/yr							MT	-/yr		
2016	0.1063	1.1718	0.9360	1.2700e- 003	0.2593	0.0568	0.3160	0.1378	0.0522	0.1900	0.0000	117.1088	117.1088	0.0251	0.0000	117.6364
2017	0.0636	0.4718	0.4773	7.9000e- 004	0.0196	0.0320	0.0515	5.2700e- 003	0.0303	0.0356	0.0000	66.8040	66.8040	0.0100	0.0000	67.0150
Total	0.1699	1.6436	1.4134	2.0600e- 003	0.2788	0.0887	0.3676	0.1431	0.0826	0.2256	0.0000	183.9128	183.9128	0.0352	0.0000	184.6514

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	2 Total CO2	CH4	N2O	CO2e
Year					tor	is/yr							M	T/yr		
2016	0.1063	1.1718	0.9360	1.2700e- 003	0.1165	0.0568	0.1732	0.0605	0.0522	0.1127	0.0000	117.1087	117.1087	0.0251	0.0000	117.6363
2017	0.0636	0.4718	0.4773	7.9000e- 004	0.0169	0.0320	0.0489	4.6200e- 003	0.0303	0.0349	0.0000	66.8040	66.8040	0.0100	0.0000	67.0149
Total	0.1699	1.6436	1.4134	2.0600e- 003	0.1334	0.0887	0.2221	0.0651	0.0826	0.1476	0.0000	183.9127	183.9127	0.0352	0.0000	184.6512
	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	52.16	0.00	39.57	54.50	0.00	34.56	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2016	10/7/2016	5	27	
2	Grading	Grading	10/8/2016	12/22/2016	5	54	
3	Paving	Paving	12/23/2016	1/5/2017	5	10	
4	Trail Installation	Building Construction	1/6/2017	2/22/2017	5	34	

Acres of Grading (Site Preparation Phase): 2

Acres of Grading (Grading Phase): 2

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Trail Installation	Cranes	0	7.00	226	0.29
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Trail Installation	Forklifts	3	8.00	89	0.20
Trail Installation	Generator Sets	1	8.00	84	0.74
Trail Installation	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Trail Installation	Welders	1	8.00	46	0.45
Grading	Excavators	2	8.00	162	0.38
Paving	Pavers	1	8.00	125	0.42
Paving	Rollers	2	6.00	80	0.38
Trail Installation	Air Compressors	1	8.00	78	0.48
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Grading	Graders	0	8.00	174	0.41
Paving	Paving Equipment	2	6.00	130	0.36
Site Preparation	Rubber Tired Dozers	1	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment	Worker Trip	Vendor Trip	Hauling Trip	Worker Trip	Vendor Trip	Hauling Trip	Worker Vehicle	Vendor	Hauling
	Count	Number	Number	Number	Length	Length	Length	Class	Vehicle Class	Vehicle Class
Trail Installation	9	84.00	33.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	891.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	446.00	14.70	6.90	1.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2016

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					ton	s/yr							МТ	√yr		
Fugitive Dust					0.0828	0.0000	0.0828	0.0449	0.0000	0.0449	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0259	0.2751	0.2067	2.0000e- 004		0.0155	0.0155		0.0142	0.0142	0.0000	19.2374	19.2374	5.8000e- 003	0.0000	19.3593
Total	0.0259	0.2751	0.2067	2.0000e- 004	0.0828	0.0155	0.0982	0.0449	0.0142	0.0591	0.0000	19.2374	19.2374	5.8000e- 003	0.0000	19.3593

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					ton	s/yr							MT	Г/уг		
Hauling	8.0000e- 003	0.1297	0.0989	3.3000e- 004	7.6300e- 003	1.9100e- 003	9.5400e- 003	2.0900e- 003	1.7600e- 003	3.8500e- 003	0.0000	29.8360	29.8360	2.2000e- 004	0.0000	29.8405
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	4.2000e- 004	6.3000e- 004	6.6000e- 003	1.0000e- 005	1.1800e- 003	1.0000e- 005	1.1900e- 003	3.1000e- 004	1.0000e- 005	3.2000e- 004	0.0000	1.0583	1.0583	6.0000e- 005	0.0000	1.0595
Total	8.4200e- 003	0.1303	0.1055	3.4000e- 004	8.8100e- 003	1.9200e- 003	0.0107	2.4000e- 003	1.7700e- 003	4.1700e- 003	0.0000	30.8943	30.8943	2.8000e- 004	0.0000	30.9000

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Fugitive Dust	II				0.0354	0.0000	0.0354	0.0192	0.0000	0.0192	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0259	0.2751	0.2067	2.0000e- 004		0.0155	0.0155		0.0142	0.0142	0.0000	19.2374	19.2374	5.8000e- 003	0.0000	19.3593
Total	0.0259	0.2751	0.2067	2.0000e- 004	0.0354	0.0155	0.0509	0.0192	0.0142	0.0334	0.0000	19.2374	19.2374	5.8000e- 003	0.0000	19.3593

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	√yr		
Hauling	8.0000e- 003	0.1297	0.0989	3.3000e- 004	6.7100e- 003	1.9100e- 003	8.6200e- 003	1.8700e- 003	1.7600e- 003	3.6300e- 003	0.0000	29.8360	29.8360	2.2000e- 004	0.0000	29.8405
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	4.2000e- 004	6.3000e- 004	6.6000e- 003	1.0000e- 005	1.0200e- 003			2.7000e- 004	1.0000e- 005	2.8000e- 004	0.0000	1.0583	1.0583	6.0000e- 005	0.0000	1.0595
Total	8.4200e- 003	0.1303	0.1055	3.4000e- 004	7.7300e- 003	1.9200e- 003	9.6500e- 003	2.1400e- 003	1.7700e- 003	3.9100e- 003	0.0000	30.8943	30.8943	2.8000e- 004	0.0000	30.9000

3.3 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	-/yr		
Fugitive Dust					0.1639	0.0000	0.1639	0.0895	0.0000	0.0895	0.0000	0.0000		0.0000		0.0000
Off-Road	0.0636	0.7017	0.5334	6.1000e- 004		0.0360	0.0360		0.0331	0.0331	0.0000	57.4861	57.4861	0.0173	0.0000	57.8502
Total	0.0636	0.7017	0.5334	6.1000e- 004	0.1639	0.0360	0.1998	0.0895	0.0331	0.1226	0.0000	57.4861	57.4861	0.0173	0.0000	57.8502

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							M	Г/уг		
Hauling	1.6900e- 003	7.6800e- 003	0.0326	1.0000e- 005	2.0000e- 004	6.0000e- 005	2.5000e- 004	5.0000e- 005	5.0000e- 005	1.1000e- 004	0.0000	1.0803	1.0803	2.0000e- 005	0.0000	1.0806

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	1.0400e- 003	1.5700e- 003	0.0165	4.0000e- 005	2.9600e- 003	2.0000e- 005	2.9800e- 003	7.9000e- 004	2.0000e- 005	8.1000e- 004	0.0000	2.6458	2.6458	1.4000e- 004	0.0000	2.6488
Total	2.7300e- 003	9.2500e- 003	0.0491	5.0000e- 005	3.1600e- 003	8.0000e- 005	3.2300e- 003	8.4000e- 004	7.0000e- 005	9.2000e- 004	0.0000	3.7260	3.7260	1.6000e- 004	0.0000	3.7294

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	-/yr		
Fugitive Dust					0.0701	0.0000	0.0701	0.0383	0.0000	0.0383	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0636	0.7017	0.5334	6.1000e- 004		0.0360	0.0360		0.0331	0.0331	0.0000	57.4860	57.4860	0.0173	0.0000	57.8501
Total	0.0636	0.7017	0.5334	6.1000e- 004	0.0701	0.0360	0.1060	0.0383	0.0331	0.0714	0.0000	57.4860	57.4860	0.0173	0.0000	57.8501

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	√yr		
Hauling	1.6900e- 003	7.6800e- 003	0.0326	1.0000e- 005	1.7000e- 004	6.0000e- 005	2.3000e- 004	5.0000e- 005	5.0000e- 005	1.0000e- 004	0.0000	1.0803	1.0803	2.0000e- 005	0.0000	1.0806
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	1.0400e- 003	1.5700e- 003	0.0165	4.0000e- 005	2.5500e- 003	2.0000e- 005	2.5700e- 003	6.9000e- 004	2.0000e- 005	7.1000e- 004	0.0000	2.6458	2.6458	1.4000e- 004	0.0000	2.6488
Total	2.7300e- 003	9.2500e- 003	0.0491	5.0000e- 005	2.7200e- 003	8.0000e- 005	2.8000e- 003	7.4000e- 004	7.0000e- 005	8.1000e- 004	0.0000	3.7260	3.7260	1.6000e- 004	0.0000	3.7294

3.4 Paving - 2016 Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	-/yr		
Off-Road	5.3900e- 003	0.0550	0.0377	6.0000e- 005		3.3200e- 003	3.3200e- 003		3.0600e- 003	3.0600e- 003	0.0000	5.1770	5.1770	1.5200e- 003	0.0000	5.2089
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.3900e- 003	0.0550	0.0377	6.0000e- 005		3.3200e- 003	3.3200e- 003		3.0600e- 003	3.0600e- 003	0.0000	5.1770	5.1770	1.5200e- 003	0.0000	5.2089

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	Γ/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e- 004	3.5000e- 004	3.6700e- 003	1.0000e- 005	6.6000e- 004	0.0000	6.6000e- 004	1.7000e- 004	0.0000	1.8000e- 004	0.0000	0.5880	0.5880	3.0000e- 005	0.0000	0.5886
Total	2.3000e- 004	3.5000e- 004	3.6700e- 003	1.0000e- 005	6.6000e- 004	0.0000	6.6000e- 004	1.7000e- 004	0.0000	1.8000e- 004	0.0000	0.5880	0.5880	3.0000e- 005	0.0000	0.5886

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive 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	s/yr							MT	√yr		
Off-Road	5.3900e- 003	0.0550	0.0377	6.0000e- 005		3.3200e- 003	3.3200e- 003		3.0600e- 003	3.0600e- 003	0.0000	5.1770	5.1770	1.5200e- 003	0.0000	5.2089
Paving	0.0000			1 1 1 1		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.3900e- 003	0.0550	0.0377	6.0000e- 005		3.3200e- 003	3.3200e- 003		3.0600e- 003	3.0600e- 003	0.0000	5.1770	5.1770	1.5200e- 003	0.0000	5.2089

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	Г/уг		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e- 004	3.5000e- 004	3.6700e- 003	1.0000e- 005	5.7000e- 004	0.0000	5.7000e- 004	1.5000e- 004	0.0000	1.6000e- 004	0.0000	0.5880	0.5880	3.0000e- 005	0.0000	0.5886
Total	2.3000e- 004	3.5000e- 004	3.6700e- 003	1.0000e- 005	5.7000e- 004	0.0000	5.7000e- 004	1.5000e- 004	0.0000	1.6000e- 004	0.0000	0.5880	0.5880	3.0000e- 005	0.0000	0.5886

3.4 Paving - 2017 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	√yr		
Off-Road	3.3100e- 003	0.0336	0.0250	4.0000e- 005		2.0100e- 003	2.0100e- 003		1.8500e- 003	1.8500e- 003	0.0000	3.3998	3.3998	1.0100e- 003	0.0000	3.4211
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.3100e- 003	0.0336	0.0250	4.0000e- 005		2.0100e- 003	2.0100e- 003		1.8500e- 003	1.8500e- 003	0.0000	3.3998	3.3998	1.0100e- 003	0.0000	3.4211

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	Γ/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	1.4000e- 004	2.1000e- 004	2.1900e- 003	1.0000e- 005	4.4000e- 004	0.0000	4.4000e- 004	1.2000e- 004	0.0000	1.2000e- 004	0.0000	0.3766	0.3766	2.0000e- 005	0.0000	0.3770
Total	1.4000e- 004	2.1000e- 004	2.1900e- 003	1.0000e- 005	4.4000e- 004	0.0000	4.4000e- 004	1.2000e- 004	0.0000	1.2000e- 004	0.0000	0.3766	0.3766	2.0000e- 005	0.0000	0.3770

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive 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	s/yr							MT	√yr		
Off-Road	3.3100e- 003	0.0336	0.0250	4.0000e- 005		2.0100e- 003	2.0100e- 003		1.8500e- 003	1.8500e- 003	0.0000	3.3998	3.3998	1.0100e- 003	0.0000	3.4211
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.3100e- 003	0.0336	0.0250	4.0000e- 005		2.0100e- 003	2.0100e- 003		1.8500e- 003	1.8500e- 003	0.0000	3.3998	3.3998	1.0100e- 003	0.0000	3.4211

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	-/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	1.4000e- 004	2.1000e- 004	2.1900e- 003	1.0000e- 005	3.8000e- 004	0.0000	3.8000e- 004	1.0000e- 004	0.0000	1.0000e- 004	0.0000	0.3766	0.3766	2.0000e- 005	0.0000	0.3770
Total	1.4000e- 004	2.1000e- 004	2.1900e- 003	1.0000e- 005	3.8000e- 004	0.0000	3.8000e- 004	1.0000e- 004	0.0000	1.0000e- 004	0.0000	0.3766	0.3766	2.0000e- 005	0.0000	0.3770

3.5 Trail Installation - 2017 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Off-Road	0.0506	0.3840	0.3095	4.4000e- 004		0.0291	0.0291		0.0277	0.0277	0.0000	38.7094	38.7094	8.2400e- 003	0.0000	38.8825
Total	0.0506	0.3840	0.3095	4.4000e- 004		0.0291	0.0291		0.0277	0.0277	0.0000	38.7094	38.7094	8.2400e- 003	0.0000	38.8825

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							M	Г/уг		
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	4.6400e- 003	0.0466	0.0625	1.2000e- 004	3.4700e- 003	7.3000e- 004	4.2000e- 003	9.9000e- 004	6.7000e- 004	1.6600e- 003	0.0000	10.8757	10.8757	8.0000e- 005	0.0000	10.8773
Worker	4.8600e- 003	7.4300e- 003	0.0782	1.9000e- 004	0.0157	1.1000e- 004	0.0158	4.1600e- 003	1.1000e- 004	4.2600e- 003	0.0000	13.4427	13.4427	6.9000e- 004	0.0000	13.4571
Total	9.5000e- 003	0.0540	0.1407	3.1000e- 004	0.0191	8.4000e- 004	0.0200	5.1500e- 003	7.8000e- 004	5.9200e- 003	0.0000	24.3183	24.3183	7.7000e- 004	0.0000	24.3344

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					ton	s/yr							МТ	-/yr		
Off-Road	0.0506	0.3840	0.3095	4.4000e- 004		0.0291	0.0291	1 1 1	0.0277	0.0277	0.0000	38.7093	38.7093	8.2400e- 003	0.0000	38.8824
Total	0.0506	0.3840	0.3095	4.4000e- 004		0.0291	0.0291		0.0277	0.0277	0.0000	38.7093	38.7093	8.2400e- 003	0.0000	38.8824

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	Γ/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	4.6400e- 003	0.0466	0.0625	1.2000e- 004	3.0700e- 003	7.3000e- 004	3.7900e- 003	8.9000e- 004	6.7000e- 004	1.5600e- 003	0.0000	10.8757	10.8757	8.0000e- 005	0.0000	10.8773
Worker	4.8600e- 003	7.4300e- 003	0.0782	1.9000e- 004	0.0135	1.1000e- 004	0.0136	3.6300e- 003	1.1000e- 004	3.7300e- 003	0.0000	13.4427	13.4427	6.9000e- 004	0.0000	13.4571
Total	9.5000e- 003	0.0540	0.1407	3.1000e- 004	0.0166	8.4000e- 004	0.0174	4.5200e- 003	7.8000e- 004	5.2900e- 003	0.0000	24.3183	24.3183	7.7000e- 004	0.0000	24.3344

4.2 Trip Summary Information

	Aver	age Daily Trip R	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Recreational	0.00	0.00	0.00		

Total	0.00	0.00	0.00	
l otal	0.00	0.00	0.00	

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Recreational	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.471808	0.065740	0.172776	0.155900	0.055970	0.009039	0.016651	0.041094	0.001122	0.001334	0.004921	0.000712	0.002932

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	-/yr		
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	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	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGa s Use	ROG	NOx	СО	SO2	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					ton	s/yr							МТ	/yr		
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000

Mitigated

	NaturalGa 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					tor	ns/yr							MT	Γ/yr		
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000

5.3 Energy by Land Use - Electricity <u>Unmitigated</u>

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		M	/yr	
User Defined Recreational	:	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		МТ	Γ/yr	
User Defined Recreational	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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Mitigated	0.9547	2.0000e- 005	2.6000e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	4.9600e- 003	4.9600e- 003	1.0000e- 005	0.0000	5.2500e- 003
Unmitigated	0.9547	2.0000e- 005	2.6000e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	4.9600e- 003	4.9600e- 003	1.0000e- 005	0.0000	5.2500e- 003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	СО	SO2	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					ton	s/yr							МТ	√yr		
Architectural Coating	0.2318	 				0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7227					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.5000e- 004	2.0000e- 005	2.6000e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	4.9600e- 003	4.9600e- 003	1.0000e- 005	0.0000	5.2500e- 003
Total	0.9547	2.0000e- 005	2.6000e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	4.9600e- 003	4.9600e- 003	1.0000e- 005	0.0000	5.2500e- 003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					ton	s/yr							МТ	Γ/yr		
Consumer Products	0.7227					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.5000e- 004	2.0000e- 005	2.6000e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	4.9600e- 003	4.9600e- 003	1.0000e- 005	0.0000	5.2500e- 003
Architectural Coating	0.2318	``````````````````````````````````````				0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.9547	2.0000e- 005	2.6000e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	4.9600e- 003	4.9600e- 003	1.0000e- 005	0.0000	5.2500e- 003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category		MT	/yr	
	0.0000	0.0000	0.0000	0.0000
, and the second	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use <u>Unmitigated</u>

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		МТ	√yr	
User Defined Recreational	0/0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		МТ	√yr	
User Defined Recreational	0/0		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
Unmitigated		0.0000	0.0000	0.0000

8.2 Waste by Land Use Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		МТ	/yr	
User Defined Recreational		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		МТ	/yr	
User Defined Recreational		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

10.0 Vegetation

San Sevaine Trail - Construction

Date: 5/17/2016 2:11 PM

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Recreational	200.00	User Defined Unit	4.60	200,000.00	0

1.2 Other Project Characteristics

UrbanizationUrbanWind Speed (m/s)2.2Precipitation Freq (Days)32

Climate Zone 10 Operational Year 2017

Utility Company Southern California Edison

 CO2 Intensity
 630.89
 CH4 Intensity
 0.029
 N20 Intensity
 0.006

 (Ib/MWhr)
 (Ib/MWhr)
 (Ib/MWhr)
 (Ib/MWhr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction only run.

Land Use - Trail project, construction only, no trip generating land use

Construction Phase - trail construction = 6 months

Off-road Equipment - equipment

Off-road Equipment -

Off-road Equipment - equipment

Grading - approx 3,565 cy grading and 7,130 cy of excavation

Construction Off-road Equipment Mitigation - per Rule 403

Off-road Equipment - equipment

Trips and VMT - grading hauling is cut and fill on site.

Table Name	Column Name	Default Value	New Value
------------	-------------	---------------	-----------

tblConstDustMitigation	CleanPavedRoadPercentReduction	0	16
tblConstructionPhase	NumDays	8.00	54.00
tblConstructionPhase	NumDays	18.00	10.00
tblConstructionPhase	NumDays	5.00	27.00
tblConstructionPhase	NumDays	230.00	34.00
tblGrading	AcresOfGrading	0.00	2.00
tblGrading	AcresOfGrading	0.00	2.00
tblGrading	MaterialExported	0.00	7,130.00
tblGrading	MaterialImported	0.00	3,565.00
tblLandUse	LandUseSquareFeet	0.00	200,000.00
tblLandUse	LotAcreage	0.00	4.60
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblTripsAndVMT	HaulingTripLength	20.00	1.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	СО	SO2	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/d	day							lb/d	day		

2016	2.5451	29.8851	22.9470	0.0403	6.7947	1.3351	8.0838	3.5043	1.2283	4.6903	0.0000	4,088.692	4,088.6925	0.7144	0.0000	4,103.6948
	 	:	:									5				
2017	3.5536	25.6976	26.2314	0.0437	1.1463	1.7619	2.9082	0.3082	1.6737	1.9819	0.0000	4,070.098	4,070.0988	0.5844	0.0000	4,082.3712
	## ## ##	• •	•									8				:
Total	6.0987	55.5827	49.1784	0.0840	7.9410	3.0970	10.9920	3.8126	2.9020	6.6722	0.0000	8,158.791	8,158.7912	1.2988	0.0000	8,186.0661
												2				

Mitigated Construction

	ROG	NOx	СО	SO2	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		
2016	2.5451	29.8851	22.9470	0.0403	3.2028	1.3351	4.4919	1.5816	1.2283	2.7676	0.0000	4,088.692 5	4,088.6925	0.7144	0.0000	4,103.6948
2017	3.5536	25.6976	26.2314	0.0437	0.9916	1.7619	2.7535	0.2702	1.6737	1.9439	0.0000	4,070.098 8	4,070.0988	0.5844	0.0000	4,082.3712
Total	6.0987	55.5827	49.1784	0.0840	4.1944	3.0970	7.2454	1.8518	2.9020	4.7115	0.0000	8,158.791 2	8,158.7912	1.2988	0.0000	8,186.0661
	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	47.18	0.00	34.09	51.43	0.00	29.39	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2016	10/7/2016	5	27	
2	Grading	Grading	10/8/2016	12/22/2016	5	54	
3	Paving	Paving	12/23/2016	1/5/2017	5	10	
4	Trail Installation	Building Construction	1/6/2017	2/22/2017	5	34	

Acres of Grading (Site Preparation Phase): 2

Acres of Grading (Grading Phase): 2

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Trail Installation	Cranes	0	7.00	226	0.29
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Trail Installation	Forklifts	3	8.00	89	0.20
Trail Installation	Generator Sets	1	8.00	84	0.74
Trail Installation	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Trail Installation	Welders	1	8.00	46	0.45
Grading	Excavators	2	8.00	162	0.38
Paving	Pavers	1	8.00	125	0.42
Paving	Rollers	2	6.00	80	0.38
Trail Installation	Air Compressors	1	8.00	78	0.48
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Grading	Graders	0	8.00	174	0.41
Paving	Paving Equipment	2	6.00	130	0.36
Site Preparation	Rubber Tired Dozers	1	8.00	255	0.40

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		Vendor Vehicle Class	Hauling Vehicle Class
	o o a				_og	_59	_0g	3.033	70111010 01400	· cincic ciaco
Trail Installation	9	84.00	33.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	891.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	446.00	14.70	6.90	1.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2016

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/d	day							lb/d	day		
Fugitive Dust					6.1305	0.0000	6.1305	3.3232	0.0000	3.3232			0.0000			0.0000
Off-Road	1.9194	20.3808	15.3102	0.0151		1.1466	1.1466		1.0549	1.0549		1,570.786 6	1,570.7866	0.4738		1,580.7365
Total	1.9194	20.3808	15.3102	0.0151	6.1305	1.1466	7.2772	3.3232	1.0549	4.3781		1,570.786 6	1,570.7866	0.4738		1,580.7365

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive 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/d	day							lb/	day		
Hauling	0.5934	9.4596	7.1655	0.0242	0.5748	0.1418	0.7166	0.1574	0.1305	0.2878		2,432.806 8	2,432.8068	0.0177	- - - -	2,433.1789
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	p : :	0.0000
Worker	0.0323	0.0447	0.4713	1.0200e- 003	0.0894	6.6000e- 004	0.0901	0.0237	6.1000e- 004	0.0243		85.0990	85.0990	4.6400e- 003		85.1965
Total	0.6257	9.5043	7.6368	0.0252	0.6642	0.1425	0.8067	0.1811	0.1311	0.3122		2,517.905 9	2,517.9059	0.0224		2,518.3754

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive 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/d	day							lb/d	day		
Fugitive Dust	II II II II				2.6208	0.0000	2.6208	1.4207	0.0000	1.4207		 - - -	0.0000			0.0000
Off-Road	1.9194	20.3808	15.3102	0.0151		1.1466	1.1466		1.0549	1.0549	0.0000	1,570.786 6	1,570.7866	0.4738		1,580.7365
Total	1.9194	20.3808	15.3102	0.0151	2.6208	1.1466	3.7674	1.4207	1.0549	2.4756	0.0000	1,570.786 6	1,570.7866	0.4738		1,580.7365

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive 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/d	day							lb/d	day		
Hauling	0.5934	9.4596	7.1655	0.0242	0.5050	0.1418	0.6468	0.1403	0.1305	0.2707		2,432.806 8	2,432.8068	0.0177		2,433.1789
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	}	0.0000	0.0000	0.0000		0.0000
Worker	0.0323	0.0447	0.4713	1.0200e- 003	0.0770	6.6000e- 004	0.0777	0.0207	6.1000e- 004	0.0213	,	85.0990	85.0990	4.6400e- 003		85.1965
Total	0.6257	9.5043	7.6368	0.0252	0.5820	0.1425	0.7245	0.1609	0.1311	0.2920		2,517.905 9	2,517.9059	0.0224		2,518.3754

3.3 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive 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/d	day							lb/d	day		
Fugitive Dust					6.0688	0.0000	6.0688	3.3156	0.0000	3.3156			0.0000			0.0000
Off-Road	2.3552	25.9874	19.7544	0.0226		1.3321	1.3321		1.2255	1.2255		2,346.945 5	2,346.9455	0.7079		2,361.8119
Total	2.3552	25.9874	19.7544	0.0226	6.0688	1.3321	7.4009	3.3156	1.2255	4.5411		2,346.945 5	2,346.9455	0.7079		2,361.8119

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive 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/d	day							lb/	day		
Hauling	0.0629	0.2782	1.1690	4.5000e- 004	7.3600e- 003	2.2400e- 003	9.6000e- 003	2.0300e- 003	2.0600e- 003	4.0900e- 003		43.2575	43.2575	6.8000e- 004		43.2717
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	*	0.0000	0.0000	0.0000		0.0000
Worker	0.0404	0.0559	0.5891	1.2800e- 003	0.1118	8.3000e- 004	0.1126	0.0296	7.6000e- 004	0.0304	,	106.3738	106.3738	5.8000e- 003		106.4956
Total	0.1033	0.3341	1.7581	1.7300e- 003	0.1191	3.0700e- 003	0.1222	0.0317	2.8200e- 003	0.0345		149.6313	149.6313	6.4800e- 003		149.7673

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive 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/d	day							lb/d	day		
Fugitive Dust					2.5944	0.0000	2.5944	1.4174	0.0000	1.4174			0.0000			0.0000
Off-Road	2.3552	25.9874	19.7544	0.0226		1.3321	1.3321		1.2255	1.2255	0.0000	2,346.945 5	2,346.9455	0.7079		2,361.8119
Total	2.3552	25.9874	19.7544	0.0226	2.5944	1.3321	3.9265	1.4174	1.2255	2.6429	0.0000	2,346.945 5	2,346.9455	0.7079		2,361.8119

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive 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/d	day							lb/	day		
Hauling	0.0629	0.2782	1.1690	4.5000e- 004	6.4800e- 003	2.2400e- 003	8.7300e- 003	1.8100e- 003	2.0600e- 003	3.8700e- 003		43.2575	43.2575	6.8000e- 004		43.2717
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0404	0.0559	0.5891	1.2800e- 003	0.0962	8.3000e- 004	0.0971	0.0258	7.6000e- 004	0.0266	,	106.3738	106.3738	5.8000e- 003		106.4956
Total	0.1033	0.3341	1.7581	1.7300e- 003	0.1027	3.0700e- 003	0.1058	0.0276	2.8200e- 003	0.0305		149.6313	149.6313	6.4800e- 003		149.7673

3.4 Paving - 2016

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	1.7956	18.3417	12.5623	0.0186		1.1065	1.1065		1.0198	1.0198		1,902.221 2	1,902.2212	0.5588		1,913.9557		
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000		
Total	1.7956	18.3417	12.5623	0.0186		1.1065	1.1065		1.0198	1.0198		1,902.221 2	1,902.2212	0.5588		1,913.9557		

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e			
Category	lb/day											lb/day							
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000			
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000			
Worker	0.0808	0.1117	1.1783	2.5600e- 003	0.2236	1.6600e- 003	0.2252	0.0593	1.5200e- 003	0.0608	,	212.7476	212.7476	0.0116	,	212.9913			
Total	0.0808	0.1117	1.1783	2.5600e- 003	0.2236	1.6600e- 003	0.2252	0.0593	1.5200e- 003	0.0608		212.7476	212.7476	0.0116		212.9913			

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	1.7956	18.3417	12.5623	0.0186		1.1065	1.1065		1.0198	1.0198	0.0000	1,902.221 2	1,902.2212	0.5588		1,913.9557		
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000		
Total	1.7956	18.3417	12.5623	0.0186		1.1065	1.1065		1.0198	1.0198	0.0000	1,902.221 2	1,902.2212	0.5588		1,913.9557		

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e			
Category	lb/day											lb/day							
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000			
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000			
Worker	0.0808	0.1117	1.1783	2.5600e- 003	0.1925	1.6600e- 003	0.1941	0.0517	1.5200e- 003	0.0532		212.7476	212.7476	0.0116	, , , , , , , , , , , , , , , , , , ,	212.9913			
Total	0.0808	0.1117	1.1783	2.5600e- 003	0.1925	1.6600e- 003	0.1941	0.0517	1.5200e- 003	0.0532		212.7476	212.7476	0.0116		212.9913			

3.4 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive 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	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269		1,873.826 4	1,873.8264	0.5588		1,885.5609		
Paving	0.0000					0.0000	0.0000		0.0000	0.0000		· ·	0.0000			0.0000		
Total	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269		1,873.826 4	1,873.8264	0.5588		1,885.5609		

	ROG	NOx	CO	SO2	Fugitive 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/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	* ! ! !	0.0000	0.0000	0.0000		0.0000
Worker	0.0716	0.1001	1.0551	2.5600e- 003	0.2236	1.6000e- 003	0.2252	0.0593	1.4700e- 003	0.0608	,	204.3730	204.3730	0.0106	,	204.5964
Total	0.0716	0.1001	1.0551	2.5600e- 003	0.2236	1.6000e- 003	0.2252	0.0593	1.4700e- 003	0.0608		204.3730	204.3730	0.0106		204.5964

	ROG	NOx	СО	SO2	Fugitive 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/d	day							lb/e	day		
Off-Road	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269	0.0000	1,873.826 4	1,873.8264	0.5588		1,885.5609
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269	0.0000	1,873.826 4	1,873.8264	0.5588		1,885.5609

	ROG	NOx	СО	SO2	Fugitive 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/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	* ! ! !	0.0000	0.0000	0.0000		0.0000
Worker	0.0716	0.1001	1.0551	2.5600e- 003	0.1925	1.6000e- 003	0.1941	0.0517	1.4700e- 003	0.0531	,	204.3730	204.3730	0.0106	, , , , , , , , , , , , , , , , , , ,	204.5964
Total	0.0716	0.1001	1.0551	2.5600e- 003	0.1925	1.6000e- 003	0.1941	0.0517	1.4700e- 003	0.0531		204.3730	204.3730	0.0106		204.5964

3.5 Trail Installation - 2017

	ROG	NOx	CO	SO2	Fugitive 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/d	day							lb/d	day		
Off-Road	2.9785	22.5877	18.2081	0.0258		1.7122	1.7122		1.6280	1.6280		2,509.986 1	2,509.9861	0.5346		2,521.2120
Total	2.9785	22.5877	18.2081	0.0258		1.7122	1.7122		1.6280	1.6280		2,509.986 1	2,509.9861	0.5346		2,521.2120

	ROG	NOx	CO	SO2	Fugitive 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/d	day							lb/e	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	 - -	0.0000	0.0000	0.0000		0.0000
Vendor	0.2746	2.6897	3.5917	7.1100e- 003	0.2073	0.0430	0.2503	0.0592	0.0395	0.0987	* ! ! !	701.7460	701.7460	5.1600e- 003		701.8544
Worker	0.3005	0.4203	4.4316	0.0107	0.9389	6.7100e- 003	0.9456	0.2490	6.1900e- 003	0.2552	,	858.3667	858.3667	0.0447		859.3049
Total	0.5752	3.1100	8.0233	0.0179	1.1463	0.0497	1.1959	0.3082	0.0457	0.3539		1,560.112 7	1,560.1127	0.0498		1,561.1593

	ROG	NOx	СО	SO2	Fugitive 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/d	lay							lb/d	day		
Off-Road	2.9785	22.5877	18.2081	0.0258		1.7122	1.7122		1.6280	1.6280	0.0000	2,509.986 1	2,509.9861	0.5346		2,521.2120
Total	2.9785	22.5877	18.2081	0.0258		1.7122	1.7122		1.6280	1.6280	0.0000	2,509.986 1	2,509.9861	0.5346		2,521.2120

	ROG	NOx	СО	SO2	Fugitive 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/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2746	2.6897	3.5917	7.1100e- 003	0.1833	0.0430	0.2262	0.0533	0.0395	0.0928	>	701.7460	701.7460	5.1600e- 003		701.8544
Worker	0.3005	0.4203	4.4316	0.0107	0.8083	6.7100e- 003	0.8150	0.2170	6.1900e- 003	0.2231		858.3667	858.3667	0.0447		859.3049
Total	0.5752	3.1100	8.0233	0.0179	0.9916	0.0497	1.0413	0.2702	0.0457	0.3159		1,560.112 7	1,560.1127	0.0498		1,561.1593

4.2 Trip Summary Information

	Aver	age Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Recreational	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Recreational	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.471808	0.065740	0.172776	0.155900	0.055970	0.009039	0.016651	0.041094	0.001122	0.001334	0.004921	0.000712	0.002932
	1		<u> </u>									

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	СО	SO2	Fugitive 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/c	lay							lb/d	day		
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	СО	SO2	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/d	day							lb/d	day		
User Defined Recreational	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

Mitigated

	NaturalGa s Use	ROG	NOx	СО	SO2	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/d	day		
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	day		
Mitigated	5.2319	2.0000e- 004	0.0208	0.0000		005	8.0000e- 005		8.0000e- 005	005		0.0438	0.0438	1.2000e- 004		0.0463
Unmitigated	5.2319	2.0000e- 004	0.0208	0.0000		8.0000e- 005	8.0000e- 005		8.0000e- 005	8.0000e- 005		0.0438	0.0438	1.2000e- 004		0.0463

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	СО	SO2	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/d	lay							lb/	day		
Architectural Coating	1.2699					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.9600					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0100e- 003	2.0000e- 004	0.0208	0.0000		8.0000e- 005	8.0000e- 005		8.0000e- 005	8.0000e- 005		0.0438	0.0438	1.2000e- 004		0.0463
Total	5.2319	2.0000e- 004	0.0208	0.0000		8.0000e- 005	8.0000e- 005		8.0000e- 005	8.0000e- 005		0.0438	0.0438	1.2000e- 004		0.0463

Mitigated

	ROG	NOx	СО	SO2	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/c	lay							lb/d	day		
Consumer Products	3.9600					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0100e- 003	2.0000e- 004	0.0208	0.0000		8.0000e- 005	8.0000e- 005		8.0000e- 005	8.0000e- 005	,	0.0438	0.0438	1.2000e- 004		0.0463
Architectural Coating	1.2699					0.0000	0.0000		0.0000	0.0000	; · · · · · · · · · · · · ·		0.0000			0.0000
Total	5.2319	2.0000e- 004	0.0208	0.0000		8.0000e- 005	8.0000e- 005		8.0000e- 005	8.0000e- 005		0.0438	0.0438	1.2000e- 004		0.0463

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

San Sevaine Trail - Construction

Date: 5/17/2016 2:14 PM

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Recreational	200.00	User Defined Unit	4.60	200,000.00	0

1.2 Other Project Characteristics

UrbanizationUrbanWind Speed (m/s)2.2Precipitation Freq (Days)32

Climate Zone 10 Operational Year 2017

Utility Company Southern California Edison

 CO2 Intensity
 630.89
 CH4 Intensity
 0.029
 N20 Intensity
 0.006

 (Ib/MWhr)
 (Ib/MWhr)
 (Ib/MWhr)
 (Ib/MWhr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction only run.

Land Use - Trail project, construction only, no trip generating land use

Construction Phase - trail construction = 6 months

Off-road Equipment - equipment

Off-road Equipment -

Off-road Equipment - equipment

Grading - approx 3,565 cy grading and 7,130 cy of excavation

Construction Off-road Equipment Mitigation - per Rule 403

Off-road Equipment - equipment

Trips and VMT - grading hauling is cut and fill on site.

Table Name Column Name Default Value New Value
--

tblConstDustMitigation	CleanPavedRoadPercentReduction	0	16
tblConstructionPhase	NumDays	8.00	54.00
tblConstructionPhase	NumDays	18.00	10.00
tblConstructionPhase	NumDays	5.00	27.00
tblConstructionPhase	NumDays	230.00	34.00
tblGrading	AcresOfGrading	0.00	2.00
tblGrading	AcresOfGrading	0.00	2.00
tblGrading	MaterialExported	0.00	7,130.00
tblGrading	MaterialImported	0.00	3,565.00
tblLandUse	LandUseSquareFeet	0.00	200,000.00
tblLandUse	LotAcreage	0.00	4.60
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblTripsAndVMT	HaulingTripLength	20.00	1.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission) <u>Unmitigated Construction</u>

	ROG	NOx	СО	SO2	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/d	day							lb/d	day		
2016	2.5252	29.5221	22.3309	0.0404	6.7947	1.3350	8.0835	3.5043	1.2282	4.6900	0.0000	4,102.846 8	4,102.8468	0.7143	0.0000	4,117.8480
2017	3.5579	25.6021	26.5122	0.0448	1.1463	1.7615	2.9078	0.3082	1.6733	1.9815	0.0000	4,160.143 3	4,160.1433	0.5843	0.0000	4,172.4125
Total	6.0831	55.1242	48.8431	0.0852	7.9410	3.0965	10.9913	3.8126	2.9016	6.6715	0.0000	8,262.990 1	8,262.9901	1.2986	0.0000	8,290.2604

Mitigated Construction

	ROG	NOx	СО	SO2	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		
2016	2.5252	29.5221	22.3309	0.0404	3.2028	1.3350	4.4916	1.5816	1.2282	2.7673	0.0000	4,102.846 8	4,102.8468	0.7143	0.0000	4,117.8480
2017	3.5579	25.6021	26.5122	0.0448	0.9916	1.7615	2.7531	0.2702	1.6733	1.9436	0.0000	4,160.143 3	4,160.1433	0.5843	0.0000	4,172.4125
Total	6.0831	55.1242	48.8431	0.0852	4.1944	3.0965	7.2446	1.8518	2.9016	4.7108	0.0000	8,262.990 1	8,262.9901	1.2986	0.0000	8,290.2604
	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	47.18	0.00	34.09	51.43	0.00	29.39	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2016	10/7/2016	5	27	
2	Grading	Grading	10/8/2016	12/22/2016	5	54	
3	Paving	Paving	12/23/2016	1/5/2017	5	10	
4	Trail Installation	Building Construction	1/6/2017	2/22/2017	5	34	

Acres of Grading (Site Preparation Phase): 2

Acres of Grading (Grading Phase): 2

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Trail Installation	Cranes	0	7.00	226	0.29
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Trail Installation	Forklifts	3	8.00	89	0.20
Trail Installation	Generator Sets	1	8.00	84	0.74
Trail Installation	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Trail Installation	Welders	1	8.00	46	0.45
Grading	Excavators	2	8.00	162	0.38
Paving	Pavers	1	8.00	125	0.42
Paving	Rollers	2	6.00	80	0.38
Trail Installation	Air Compressors	1	8.00	78	0.48
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Grading	Graders	0	8.00	174	0.41
Paving	Paving Equipment	2	6.00	130	0.36
Site Preparation	Rubber Tired Dozers	1	8.00	255	0.40

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		Vendor Vehicle Class	Hauling Vehicle Class
	o o a				_og	_59	_0g	3.033	70111010 01400	· cincic ciaco
Trail Installation	9	84.00	33.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	891.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	446.00	14.70	6.90	1.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2016

	ROG	NOx	CO	SO2	Fugitive 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/d	day							lb/d	day		
Fugitive Dust					6.1305	0.0000	6.1305	3.3232	0.0000	3.3232			0.0000			0.0000
Off-Road	1.9194	20.3808	15.3102	0.0151		1.1466	1.1466		1.0549	1.0549		1,570.786 6	1,570.7866	0.4738		1,580.7365
Total	1.9194	20.3808	15.3102	0.0151	6.1305	1.1466	7.2772	3.3232	1.0549	4.3781		1,570.786 6	1,570.7866	0.4738		1,580.7365

	ROG	NOx	CO	SO2	Fugitive 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/d	day							lb/	day		
Hauling	0.5714	9.0995	6.4696	0.0242	0.5748	0.1415	0.7163	0.1574	0.1301	0.2875		2,438.638 0	2,438.6380	0.0175	- - - -	2,439.0052
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	F	0.0000
Worker	0.0344	0.0418	0.5511	1.1200e- 003	0.0894	6.6000e- 004	0.0901	0.0237	6.1000e- 004	0.0243		93.4222	93.4222	4.6400e- 003		93.5197
Total	0.6058	9.1413	7.0207	0.0253	0.6642	0.1421	0.8064	0.1811	0.1308	0.3119		2,532.060 2	2,532.0602	0.0221		2,532.5248

	ROG	NOx	СО	SO2	Fugitive 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/d	day							lb/d	day		
Fugitive Dust	1 11 11				2.6208	0.0000	2.6208	1.4207	0.0000	1.4207		! ! !	0.0000		: : :	0.0000
Off-Road	1.9194	20.3808	15.3102	0.0151		1.1466	1.1466		1.0549	1.0549	0.0000	1,570.786 6	1,570.7866	0.4738		1,580.7365
Total	1.9194	20.3808	15.3102	0.0151	2.6208	1.1466	3.7674	1.4207	1.0549	2.4756	0.0000	1,570.786 6	1,570.7866	0.4738		1,580.7365

	ROG	NOx	CO	SO2	Fugitive 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/d	day							lb/d	day		
Hauling	0.5714	9.0995	6.4696	0.0242	0.5050	0.1415	0.6465	0.1403	0.1301	0.2704		2,438.638 0	2,438.6380	0.0175		2,439.0052
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	*	0.0000	0.0000	0.0000		0.0000
Worker	0.0344	0.0418	0.5511	1.1200e- 003	0.0770	6.6000e- 004	0.0777	0.0207	6.1000e- 004	0.0213	,	93.4222	93.4222	4.6400e- 003		93.5197
Total	0.6058	9.1413	7.0207	0.0253	0.5820	0.1421	0.7241	0.1609	0.1308	0.2917		2,532.060 2	2,532.0602	0.0221		2,532.5248

3.3 Grading - 2016

	ROG	NOx	СО	SO2	Fugitive 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/d	day							lb/d	day		
Fugitive Dust					6.0688	0.0000	6.0688	3.3156	0.0000	3.3156			0.0000			0.0000
Off-Road	2.3552	25.9874	19.7544	0.0226		1.3321	1.3321		1.2255	1.2255		2,346.945 5	2,346.9455	0.7079		2,361.8119
Total	2.3552	25.9874	19.7544	0.0226	6.0688	1.3321	7.4009	3.3156	1.2255	4.5411		2,346.945 5	2,346.9455	0.7079		2,361.8119

	ROG	NOx	CO	SO2	Fugitive 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/d	day							lb/d	day		
Hauling	0.0573	0.2775	0.9898	4.6000e- 004	7.3600e- 003	2.1600e- 003	9.5200e- 003	2.0300e- 003	1.9800e- 003	4.0100e- 003		44.7169	44.7169	6.2000e- 004		44.7299
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	*	0.0000	0.0000	0.0000		0.0000
Worker	0.0430	0.0523	0.6888	1.4100e- 003	0.1118	8.3000e- 004	0.1126	0.0296	7.6000e- 004	0.0304	,	116.7778	116.7778	5.8000e- 003		116.8996
Total	0.1003	0.3298	1.6786	1.8700e- 003	0.1191	2.9900e- 003	0.1221	0.0317	2.7400e- 003	0.0344		161.4947	161.4947	6.4200e- 003		161.6295

	ROG	NOx	СО	SO2	Fugitive 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/d	day							lb/d	day		
Fugitive Dust					2.5944	0.0000	2.5944	1.4174	0.0000	1.4174			0.0000			0.0000
Off-Road	2.3552	25.9874	19.7544	0.0226		1.3321	1.3321		1.2255	1.2255	0.0000	2,346.945 5	2,346.9455	0.7079		2,361.8119
Total	2.3552	25.9874	19.7544	0.0226	2.5944	1.3321	3.9265	1.4174	1.2255	2.6429	0.0000	2,346.945 5	2,346.9455	0.7079		2,361.8119

	ROG	NOx	CO	SO2	Fugitive 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/d	day							lb/	day		
Hauling	0.0573	0.2775	0.9898	4.6000e- 004	6.4800e- 003	2.1600e- 003	8.6400e- 003	1.8100e- 003	1.9800e- 003	3.8000e- 003		44.7169	44.7169	6.2000e- 004		44.7299
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	*	0.0000	0.0000	0.0000		0.0000
Worker	0.0430	0.0523	0.6888	1.4100e- 003	0.0962	8.3000e- 004	0.0971	0.0258	7.6000e- 004	0.0266	,	116.7778	116.7778	5.8000e- 003		116.8996
Total	0.1003	0.3298	1.6786	1.8700e- 003	0.1027	2.9900e- 003	0.1057	0.0276	2.7400e- 003	0.0304		161.4947	161.4947	6.4200e- 003		161.6295

3.4 Paving - 2016

	ROG	NOx	СО	SO2	Fugitive 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/d	lay							lb/d	day		
Off-Road	1.7956	18.3417	12.5623	0.0186		1.1065	1.1065		1.0198	1.0198		1,902.221 2	1,902.2212	0.5588		1,913.9557
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7956	18.3417	12.5623	0.0186		1.1065	1.1065		1.0198	1.0198		1,902.221 2	1,902.2212	0.5588		1,913.9557

	ROG	NOx	CO	SO2	Fugitive 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/d	day							lb/e	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0860	0.1046	1.3777	2.8100e- 003	0.2236	1.6600e- 003	0.2252	0.0593	1.5200e- 003	0.0608		233.5556	233.5556	0.0116		233.7992
Total	0.0860	0.1046	1.3777	2.8100e- 003	0.2236	1.6600e- 003	0.2252	0.0593	1.5200e- 003	0.0608		233.5556	233.5556	0.0116		233.7992

	ROG	NOx	CO	SO2	Fugitive 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/c	lay							lb/d	day		
Off-Road	1.7956	18.3417	12.5623	0.0186		1.1065	1.1065		1.0198	1.0198	0.0000	1,902.221 2	1,902.2212	0.5588		1,913.9557
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7956	18.3417	12.5623	0.0186		1.1065	1.1065		1.0198	1.0198	0.0000	1,902.221 2	1,902.2212	0.5588		1,913.9557

	ROG	NOx	CO	SO2	Fugitive 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/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	* ! ! !	0.0000	0.0000	0.0000		0.0000
Worker	0.0860	0.1046	1.3777	2.8100e- 003	0.1925	1.6600e- 003	0.1941	0.0517	1.5200e- 003	0.0532	,	233.5556	233.5556	0.0116	,	233.7992
Total	0.0860	0.1046	1.3777	2.8100e- 003	0.1925	1.6600e- 003	0.1941	0.0517	1.5200e- 003	0.0532		233.5556	233.5556	0.0116		233.7992

3.4 Paving - 2017

	ROG	NOx	СО	SO2	Fugitive 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/d	day							lb/d	day		
Off-Road	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269		1,873.826 4	1,873.8264	0.5588		1,885.5609
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269		1,873.826 4	1,873.8264	0.5588		1,885.5609

	ROG	NOx	СО	SO2	Fugitive 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/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	* ! ! !	0.0000	0.0000	0.0000		0.0000
Worker	0.0764	0.0937	1.2375	2.8100e- 003	0.2236	1.6000e- 003	0.2252	0.0593	1.4700e- 003	0.0608	,	224.3953	224.3953	0.0106	,	224.6187
Total	0.0764	0.0937	1.2375	2.8100e- 003	0.2236	1.6000e- 003	0.2252	0.0593	1.4700e- 003	0.0608		224.3953	224.3953	0.0106		224.6187

	ROG	NOx	СО	SO2	Fugitive 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/d	day							lb/d	day		
Off-Road	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269	0.0000	1,873.826 4	1,873.8264	0.5588		1,885.5609
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269	0.0000	1,873.826 4	1,873.8264	0.5588		1,885.5609

	ROG	NOx	CO	SO2	Fugitive 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/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0764	0.0937	1.2375	2.8100e- 003	0.1925	1.6000e- 003	0.1941	0.0517	1.4700e- 003	0.0531		224.3953	224.3953	0.0106	,	224.6187
Total	0.0764	0.0937	1.2375	2.8100e- 003	0.1925	1.6000e- 003	0.1941	0.0517	1.4700e- 003	0.0531		224.3953	224.3953	0.0106		224.6187

3.5 Trail Installation - 2017

	ROG	NOx	СО	SO2	Fugitive 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/d	day							lb/d	day		
Off-Road	2.9785	22.5877	18.2081	0.0258		1.7122	1.7122		1.6280	1.6280		2,509.986 1	2,509.9861	0.5346		2,521.2120
Total	2.9785	22.5877	18.2081	0.0258		1.7122	1.7122		1.6280	1.6280		2,509.986 1	2,509.9861	0.5346		2,521.2120

	ROG	NOx	CO	SO2	Fugitive 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/e	day							lb/	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2583	2.6207	3.1066	7.1600e- 003	0.2073	0.0426	0.2499	0.0592	0.0391	0.0983		707.6968	707.6968	5.0100e- 003		707.8020
Worker	0.3211	0.3937	5.1975	0.0118	0.9389	6.7100e- 003	0.9456	0.2490	6.1900e- 003	0.2552	,	942.4603	942.4603	0.0447		943.3985
Total	0.5794	3.0144	8.3041	0.0190	1.1463	0.0493	1.1955	0.3082	0.0453	0.3535		1,650.157 1	1,650.1571	0.0497		1,651.2005

	ROG	NOx	СО	SO2	Fugitive 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/d	day							lb/d	day		
Off-Road	2.9785	22.5877	18.2081	0.0258		1.7122	1.7122		1.6280	1.6280	0.0000	2,509.986 1	2,509.9861	0.5346		2,521.2120
Total	2.9785	22.5877	18.2081	0.0258		1.7122	1.7122		1.6280	1.6280	0.0000	2,509.986 1	2,509.9861	0.5346		2,521.2120

	ROG	NOx	CO	SO2	Fugitive 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/d	day							lb/	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2583	2.6207	3.1066	7.1600e- 003	0.1833	0.0426	0.2258	0.0533	0.0391	0.0924	**************************************	707.6968	707.6968	5.0100e- 003		707.8020
Worker	0.3211	0.3937	5.1975	0.0118	0.8083	6.7100e- 003	0.8150	0.2170	6.1900e- 003	0.2231	,	942.4603	942.4603	0.0447		943.3985
Total	0.5794	3.0144	8.3041	0.0190	0.9916	0.0493	1.0408	0.2702	0.0453	0.3156		1,650.157 1	1,650.1571	0.0497		1,651.2005

4.2 Trip Summary Information

	Aver	age Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Recreational	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Recreational	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.471808	0.065740	0.172776	0.155900	0.055970	0.009039	0.016651	0.041094	0.001122	0.001334	0.004921	0.000712	0.002932
	-			-								

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	СО	SO2	Fugitive 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/c	lay							lb/d	day		
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa 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/d	day		
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	1 1 1 1	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

Mitigated

	NaturalGa 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/d	day		
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	day		
Mitigated	5.2319	2.0000e- 004	0.0208	0.0000		005	8.0000e- 005		8.0000e- 005	005		0.0438	0.0438	1.2000e- 004		0.0463
Unmitigated	5.2319	2.0000e- 004	0.0208	0.0000		8.0000e- 005	8.0000e- 005		8.0000e- 005	8.0000e- 005		0.0438	0.0438	1.2000e- 004		0.0463

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	СО	SO2	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/d	lay							lb/	day		
Architectural Coating	1.2699					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.9600					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0100e- 003	2.0000e- 004	0.0208	0.0000		8.0000e- 005	8.0000e- 005		8.0000e- 005	8.0000e- 005		0.0438	0.0438	1.2000e- 004		0.0463
Total	5.2319	2.0000e- 004	0.0208	0.0000		8.0000e- 005	8.0000e- 005		8.0000e- 005	8.0000e- 005		0.0438	0.0438	1.2000e- 004		0.0463

Mitigated

	ROG	NOx	СО	SO2	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/c	day							lb/d	day		
Consumer Products	3.9600					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0100e- 003	2.0000e- 004	0.0208	0.0000		8.0000e- 005	8.0000e- 005		8.0000e- 005	8.0000e- 005	* · · · · · · · · · · · · ·	0.0438	0.0438	1.2000e- 004		0.0463
Architectural Coating	1.2699					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	5.2319	2.0000e- 004	0.0208	0.0000		8.0000e- 005	8.0000e- 005		8.0000e- 005	8.0000e- 005		0.0438	0.0438	1.2000e- 004		0.0463

7.0 Water Detail

7.1 Mitigation Measures Water

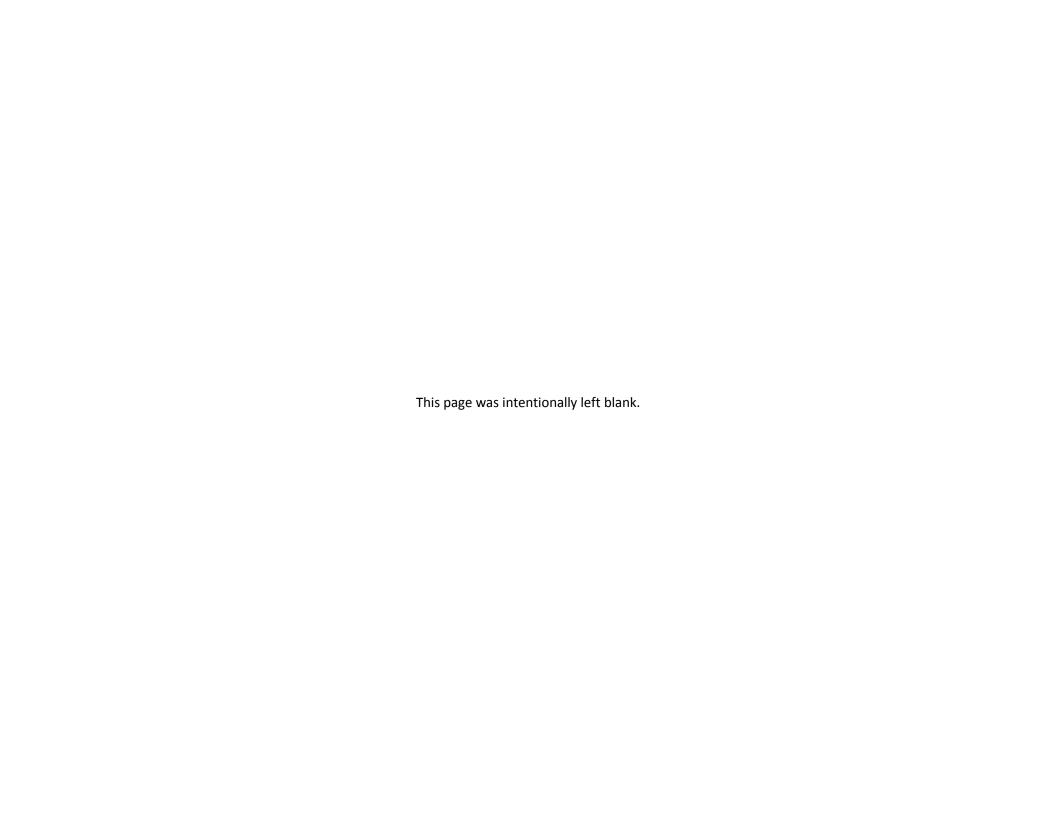
8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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



Appendix BHABITAT ASSESSMENT





November 16, 2018 JN 153429

CITY OF FONTANA

Contact: *Rina Leung* 8353 Sierra Avenue Fontana, California 92335

SUBJECT: Habitat Assessment for the San Sevaine Trail Phase 1, Segment 2 Project located in the City of Fontana, San Bernardino County, California

Dear Ms. Leung:

Michael Baker International (Michael Baker) conducted a habitat assessment for the San Sevaine Trail Phase 1, Segment 2 Project (project site or site) located in the City of Fontana, San Bernardino County, California. Michael Baker biologists Ashley M. Spencer and Thomas C. Millington inventoried and evaluated the condition of the habitat within the project site on June 6, 2016.

The habitat assessment was conducted to characterize existing site conditions and to assess the probability of occurrence of special-status¹ plant and wildlife species that could pose a constraint to project implementation. This report provides an in-depth assessment of the suitability of the on-site habitat to support San Bernardino kangaroo rat (*Dipodomys merriami parvus*), burrowing owl (*Athene cunicularia*), and coastal California gnatcatcher (*Polioptila californica californica*), as well as several other special-status plant and wildlife species identified by the California Natural Diversity Data Base (CNDDB) and other electronic databases as potentially occurring in the vicinity of the project site.

Project Location

The project site is generally located west of Interstate 215 and north of Interstate 10 in the City of Fontana, San Bernardino County, California (refer to Exhibit 1, *Regional Vicinity*). The project site is depicted on the Cucamonga Peak and Guasti quadrangles of the United States Geological Survey's (USGS) 7.5-minute topographic map series in Sections 27 and 34 of Township 1 north, Range 6 west (refer to Exhibit 2, *Site Vicinity*). Specifically, the project site is located north of the Pacific Electric Bike Trail, south of Banyan Street, and southwest of where State Route 210 and Interstate 15 intersect (refer to Exhibit 3, *Project Site*).

Project Description

The proposed Project consists of the expansion of the existing Class I San Sevaine Trail, Segment 2, by adding a new 1.25-mile trail segment within the cities of Fontana and Rancho Cucamonga. The Project would involve converting an existing maintenance road, which currently runs parallel to the East Etiwanda

¹ As used in this report, "special-status" refers to plant and wildlife species that are federally or State listed, proposed, or candidates; plant species that have been designated a California Native Plant Society (CNPS) Rare Plant Rank; and wildlife species that are designated by the California Department of Fish and Wildlife (CDFW) as fully protected, species of special concern, or watch list species.

Creek Channel, into a paved trail, and filling the gaps in the new linear path. The new trail segment would provide a direct connection to the existing 21-mile Pacific Electric Inland Empire Trail at the Project's southern terminus, approximately 0.25 miles south of Victoria Street. The Pacific Electric Inland Empire Trail, in turn, provides connectivity to the 30-mile Santa Ana River Trail. This regional trail connection is a key component of the proposed Project, as it is anticipated to enhance non-motorized access in the area and encourage increased trail use for both recreation and transportation purposes.

As described in the *San Sevaine Trail Connectivity Master Plan* prepared by the City in December 2015, the San Sevaine Trail is the only north-south Class I bike path in the Inland Empire. The San Sevaine Trail is a fragmented, incomplete trail system, and there is currently only one complete trail segment (1.4 miles). The trail in its entirety is planned to be 11 miles long at buildout, extending from Wilson Avenue in Rancho Cucamonga and Duncan Canyon Road in Fontana, south to the power line easement at Country Village Golf Course in Jurupa Valley. The East Etiwanda Creek Channel right-of-way, owned by the San Bernardino County Flood Control District, is a defining feature of the area. This channel corridor maintenance road will provide the primary spine for the San Sevaine Trail Connectivity Network through San Bernardino County, and the trail network will be comprised of three separate segments: North, Central, and South segments. The proposed Project is part of the North segment. Development will be located within a disturbed dirt and partially paved flood control maintenance road that parallels the East Etiwanda Creek Channel.

Proposed Improvements

Implementation of the proposed Project would involve the construction of a 1.25-mile-long new asphalt trail for use by bicyclists and pedestrians within the East Etiwanda Channel right-of-way. The trail alignment would run parallel to the existing flood control channel as it would utilize the existing flood control maintenance road that currently runs parallel to the flood control channel. The new segment of the San Sevaine Trail is planned to be a continuous 12-foot-wide asphalt path with 4-foot decomposed granite shoulders, and would include four granite block benches, LED-lighted bollards, directional and interpretive trail signage, a chain link fence, potable water connection, and striping and pavement legend to alert users of the bike lane.

The proposed trail would be completely separate from major roadways and would be classified as a Class I bicycle and pedestrian path. However, the trail alignment would cross two freeway underpass structures (Interstate 210 and Interstate 15) and one major roadway (Victoria Street), as described below.

State Route 210 and Interstate 15

The existing flat surface on the west side of the East Etiwanda Channel would be paved to cross under the Interstate 15 abutment wall. In addition, under bridge clearances on both the south and northbound Interstate 15 undercrossing along the channel would require excavation and construction of retaining walls. This work would be coordinated with Caltrans District 8, including the procurement of encroachment permits.

Victoria Street

A signalized mid-block crossing would be installed in order to connect south across Victoria Street to the east bank of the East Etiwanda Channel. This would include two options; one option would follow the trail along the west side of the channel and the other option would follow the trail along the east side of the



channel south, in order to connect with the existing Pacific Electric Inland Empire Trail. In order to increase trail user safety, a road diet may also be a component of the proposed crossing design at Victoria Street, which would involve a potential roadway lane width reduction or re-channelization and installation of a pedestrian safety island.

Construction would potentially begin in 2016, would continue for approximately six months, and would include site preparation, asphalt paving, landscaping, and installation of lighted bollards, signage, benches, and fences. Construction would involve the use of various types of construction equipment including tractors/loaders/backhoes, forklifts, welders, a paver, rollers, and small scale equipment such as air compressors, trenchers, mixers, and saws. Equipment would be stored on-site when not in use in a designated staging area. Operation of the Project would commence in 2017.

Methodology

A literature review and records search was conducted to determine which special-status biological resources have the potential to occur on or within the general vicinity of the project site (survey area). In addition to the literature review, a general habitat assessment or field survey of the project site was conducted. The field survey provided information on the existing conditions on the project site and assess the potential for special-status biological resources to occur.

Literature Review

Prior to conducting the field survey, an updated literature review and records search was conducted for special-status biological resources potentially occurring within the survey area. Previously recorded occurrences of special-status plant and wildlife species and their proximity to the survey area were determined through a query of the CDFW QuickView Tool in the Biogeographic Information and Observation System (BIOS), CNDDB Rarefind 5, the CNPS Electronic Inventory of Rare and Endangered Vascular Plants of California, Calflora Database, compendia of special-status species published by CDFW, the U.S. Fish and Wildlife Service (USFWS) species listings, and the National Marine Fisheries Service (NMFS) species listings.

All available reports, survey results, and literature detailing the biological resources previously observed on or within the vicinity of the project site were reviewed to understand existing site conditions and note the extent of any disturbances that have occurred on the project site that would otherwise limit the distribution of special-status biological resources. Standard field guides and texts were reviewed for specific habitat requirements of special-status and non-special-status biological resources, as well as the following resources:

- United States Department of Agriculture (USDA) Natural Resource Conservation Service (NRCS) Web Soil Survey;
- City of Fontana General Plan;
- USFWS Critical Habitat designations for Threatened and Endangered Species; and
- CDFW 2012 Staff Report on Burrowing Owl Mitigation.



The literature review provided a baseline from which to inventory the biological resources potentially occurring within the project site. Additional recorded occurrences of those species found on or near the project site were derived from database queries. The CNDDB database was used, in conjunction with ArcGIS software, to locate the occurrence records and determine the distance from the project site.

Habitat Assessment/Site Investigation

Michael Baker biologists Ashley M. Spencer and Thomas C. Millington inventoried and evaluated the condition of the habitat within the project site on June 6, 2016. Plant communities were identified on aerial photographs and visually inspected along the boundary of the project site to document their extent. The plant communities were evaluated for their potential to provide suitable habitat for special-status plant and wildlife species as well as corridors and linkages that may support the movement of wildlife through the area. Special attention was given to any undeveloped, natural areas, which have a higher potential to support special-status plant and wildlife species.

All plant and wildlife species observed, as well as dominant plant species within each plant community, were recorded. Plant species observed during the field survey were identified by visual characteristics and morphology in the field. Unusual and less familiar plant species were photographed during the survey and identified in the laboratory using taxonomical guides. Wildlife detections were made through observation of scat, trails, tracks, burrows, nests, and/or visual and aural observation. In addition, site characteristics such as soil condition, topography, hydrology, anthropogenic disturbances, indicator species, condition of on-site plant communities, and presence of potential jurisdictional drainage and/or wetland features were noted.

Existing Site Conditions

On-site surface elevations range from approximately 1,324 to 1,465 feet above mean sea level and generally slopes to the south. According to the Custom Soil Resource Report for Southwestern San Bernardino County, the survey area is underlain by Soboba stony loamy sand, 2 to 9 percent slopes (SpC), Tujunga gravelly loamy sand, 0 to 9 percent slopes (TvC), Soboba gravelly loamy sand, 0 to 9 percent slopes (SoC), and Psamments, Fluvents and Frequently flooded soils (Ps) (refer to Exhibit 4, *Soils*). The proposed trail alignment will be installed within the existing flood control maintenance road that currently runs parallel to the flood control channel that has been heavily disturbed from installation of the flood control channel and routine maintenance activities. Soils within the proposed trail alignment have been mechanically disturbed and compacted.

The proposed trail alignment will be installed within a disturbed dirt and partially paved flood control maintenance road that parallels the East Etiwanda Creek Channel. The areas immediately surrounding the maintenance road consist largely of undeveloped native habitat areas, two freeways (State Route 210 and Interstate 15), the East Etiwanda Creek Channel, and two urbanized residential areas. The flood control channel (East Etiwanda Creek) has been channelized into an approximately 25-foot-wide concrete-lined box channel. A chain-link fence borders the flood control channel. These disturbances created from the channelization of East Etiwanda Creek and routine maintenance activities have greatly disturbed, if not eliminated, the natural plant communities that once occurred on the project alignment. Refer to Attachment B for photographs taken throughout the survey area.



Residential neighborhoods are found to the north, south, east, and west of the survey area. In addition, several community facilities border the survey area that include the Etiwanda Creek Community and Dog Park which is located 0.5 mile west of the Project's northerly limits; a skating rink located 0.65 mile southwest of the Project's southerly limits; and four public high schools within a 2-mile radius of the project site. In addition, the Victoria Street Park and Ride is located immediately east of the southern portion of the Project.

Vegetation

Five (5) plant communities were observed within the boundaries of the survey area during the habitat assessment: buckwheat scrub, Riversidian sage scrub, mature Riversidian alluvial fan sage scrub (RAFSS), disturbed mature RAFSS, and intermediate RAFSS (refer to Exhibit 5, *Vegetation*). In addition, the project site contains land cover types that would be classified as disturbed, developed, an un-vegetated basin bottom, and landscaped. These communities are described in further detail below.

Buckwheat Scrub

The buckwheat scrub plant community can be found within the northern, central and southern portions of the survey area lining the maintenance roads. These area have previously been disturbed and have revegetated with a monoculture of California buckwheat (*Eriogonum fasciculatum*). Other low-growing plant species including California croton (*Croton californicus*), deerweed (*Acmispon glaber*), and common sunflower (*Helianthus annuus*) also occur in low density.

Riversidian Sage Scrub

The Riversidian sage scrub plant community occurs on the northern and southern portions of the survey area. This plant community has been subject to anthropogenic disturbances, but supports a variety of plant species. Plant species occurring within this community include deerweed, black sagebrush (*Artemisia arbuscula*), California sagebrush, California buckwheat, brittlebush (*Encelia farinosa*), white sage (*Salvia apiana*), chia sage (*Salvia columbariae*), and non-native grasses.

Mature RAFSS

The mature RAFSS plant community can be found in the northern portion of the survey area to the east of the East Etiwanda Creek Channel. This disturbed mature RAFSS plant community has been effectively cutoff from the historic fluvial flow patterns and scouring regimes of Lytle Creek and flows exiting the San
Gabriel Mountains due to the construction of the surrounding developments and channelization of flood
control structures. These activities have eliminated the fluvial processes to this area which are needed to
maintain openness of the RAFSS plant community in order to provide suitable habitat for sensitive plant
and wildlife species associated with the RAFSS plant communities (i.e., San Bernardino kangaroo rat, Santa
Ana River woollystar (*Eriastrum densifolium* ssp. *sanctorum*), slender-horned spineflower (*Dodecahema leptoceras*)). Flooding events that characterize this plant community have not occurred in the general
vicinity since the construction of Interstate 15, resulting in a change in soil and alluvial vegetation to mature
into a dense plant community that no longer support these species.

This plant community within the survey area is dominated by chamise (*Adenostoma fasciculatum*), mountain mahogany (*Cercocarpus betuloides*), scalebroom (*Lepidospartum squamatum*), chaparral yucca



(Hesperoyucca whipplei), hollyleaf redberry (Rhamnus ilicifolia), and Mexican elderberry (Sambucus nigra). Low growing plant species found within this community include deerweed, black sagebrush, California sagebrush, California cholla (Cylindropuntia californica), scarlet larkspur (Delphinium cardinal), and sapphire woollystar (Eriastrum sapphirinum).

Disturbed Mature RAFSS

The disturbed mature RAFSS plant community can be found in the southern portion of the survey area and consists of a remnant mature RAFSS plant community that is dominated by non-native plant species and grasses. Plant species occurring within this plant community include chamise, mountain mahogany, Mexican elderberry, yerba santa (*Eriodictyon californicum*), California buckwheat, red gum eucalyptus (*Eucalyptus camaldulensis*), short-pod mustard (*Hirschfeldia incana*), and tree tobacco (*Nicotiana glauca*). Non-native grasses within this plant community include red brome (*Bromus madritensis* ssp. *rubens*) and Mediterranean grass (*Schismus barbatus*).

Intermediate RAFSS

The intermediate RAFSS plant community occurs within the northern portion of the survey area to the west of the East Etiwanda Creek Channel. Intermediate RAFSS habitat forms a few years following a flood event and is characterized as having more diverse vegetation. Dominate plant species found within this plant community include chamise, yerba santa, white sage, and California croton. Other low growing plant species found within this community include black sagebrush, showy penstemon (*Opuntia littoralis*), common phacelia (*Phacelia distans*), and chia sage.

<u>Disturbed</u>

Disturbed areas on-site include unimproved dirt access roads, the areas parallel to the maintenance roads, construction zones, and the areas subjected to weed abatement activities. Disturbed areas consist of highly compacted soils that no longer support a native plant community. Plant species observed within the disturbed areas include short-podded mustard, tree tobacco, Russian thistle (*Salsola tragus*), and non-native grasses. The proposed trial alignment will be installed within the existing maintenance road.

Developed

Developed areas within the survey area generally consist of paved, impervious surfaces. This includes paved roadways, commercial buildings, residential housing, State Route 210, Interstate 15, the concrete lined East Etiwanda Creek Channel, and maintenance roads.

Un-vegetated Basin Bottom

The un-vegetated basin bottom is located within a basin found in the central portion of the survey area just north of Interstate 15 and west of the East Etiwanda Creek Channel. This basin was not storing water at the time of this habitat assessment and the un-vegetated basin bottom consisted of sand and gravel.

Landscaped

Landscaped vegetation primarily consists of manicured lawns and rows of ornamental trees separating State Route 210 and Interstate 15 from the other plant communities found within the survey area. Plant species



observed in these areas include trailing acacia (*Acacia redolens*), California buckwheat, Fremont cottonwood (*Populus fremontii*), and non-native grasses.

Wildlife

Plant communities provide foraging habitat, nesting/denning sites, and shelter from adverse weather or predations. This section provides a discussion of those wildlife species that were observed or expected to occur within the survey area. The discussion is to be used a general reference and is limited by the season, time of day, and weather conditions in which the field survey was conducted. Wildlife detections were based on calls, songs, scat, tracks, burrows, and direct observation.

Fish

No fish or hydrogeomorphic features (e.g., creeks, ponds, lakes, reservoirs) with frequent sources of water that would support populations of fish were observed within the proposed trail alignment. East Etiwanda Creek Channel does not support perennial water flows and is concrete lined which does not support the native habitats favored by fish known to occur in the general vicinity of the project. In addition, the channel was dry at the time of the habitat assessment and most likely does not support standing water for long periods of time that would be sufficient to support populations of fish. The water detention basins found on the southern portion of the survey area have the potential to provide suitable habitat for exotic, introduced fish species; however, the water detention basin was dry at the time of the 2016 site investigation. Therefore, no fish are expected to occur and are presumed absent from the survey area.

Amphibians

No amphibians or hydrogeomorphic features (e.g., creeks, ponds, lakes, reservoirs) with frequent sources of water that would support populations of amphibians were observed within the proposed trial alignment. East Etiwanda Creek Channel does not support perennial water flows and is concrete lined which does not support the habitats favored by amphibians known to occur in the general vicinity of the project. In addition, the channel was dry at the time of the habitat assessment and most likely does not support standing water for long periods of time that would be sufficient to support populations of amphibians. The water detention basins found on the southern portion of the survey area has the potential to provide suitable habitat for amphibians; however, the water detention basin was dry at the time of the 2016 site investigation. Therefore, no amphibians are expected to occur and are presumed absent from the survey area.

Reptiles

Although the proposed trial alignment has been heavily disturbed, it has the potential to support a variety of reptilian species acclimated to human presence and disturbance. Reptilian species detected during the habitat assessment included Great Basin fence lizard (*Sceloporus occidentalis longipes*), Western sideblotched lizard (*Uta stansburiana elegans*), and red racer (*Coluber flagellum piceus*). Additionally, the undeveloped areas within the survey area provide suitable habitat for a variety of reptilian species known to occur in the area. Reptilian species expected to occur within the boundaries of the survey area include San Diego alligator lizard (*Elgaria multicarinata webbii*), San Diego gopher snake (*Pituophis catenifer annectens*), and southern pacific rattlesnake (*Crotalus oreganus helleri*).



Birds

The native plant communities within the survey area provide suitable foraging and cover habitat for a variety of resident and migrant bird species. Bird species detected during the field survey included California towhee (*Melozone crissalis*), black phoebe (*Sayornis nigricans*), Bewick's wren (*Thryomanes bewickii*), red-tailed hawk (*Buteo jamaicensis*), mourning dove (*Zenaida macroura*), house finch (*Carpodacus mexicanus*), barn swallow (*Hirundo rustica*), Costa's hummingbird (*Calypte costae*), Anna's hummingbird (*Calypte anna*), killdeer (*Charadrius vociferus*), American kestrel (*Falco sparverius*), bushtit (*Psaltriparus minimus*), and northern mockingbird (*Mimus polyglottos*), cliff swallow (*Petrochelidon pyrrhonota*), northern rough-winged swallow (*Stelgidopteryx serripennis*), and California thrasher (*Toxostoma redivivum*). It should also be noted that one CDFW Watch List species was observed foraging in the southern portion of the project site during the field survey: Cooper's hawk (*Accipiter cooperii*). One USFWS federally threatened species was also observed foraging within the mature RAFSS plant community within the northern portion of the project site: coastal California gnatcatcher (*Polioptila californica californica*).

Mammals

Although the proposed trial alignment has been heavily disturbed, it has the potential to support a variety of mammalian species acclimated to human presence and disturbance. However, most mammal species are nocturnal and are difficult to observe during a diurnal field survey. Cottontail rabbit (*Sylvilagus audubonii*) and California ground squirrel (*Otospermophilus beecheyi*) were the only mammalian species observed during the field survey. Additionally, the undeveloped areas within the survey area provide suitable habitat for a variety of mammalian species known to occur in the area. Common mammalian species that are expected to occur include coyote (*Canis latrans*), raccoon (*Procyon lotor*), deer mouse (*Peromyscus* sp.), and striped skunk (*Mephitis mephitis*).

Nesting Birds

No active nests or birds displaying nesting behavior were observed during the field survey. However, the plant communities within the survey area provide suitable foraging and nesting habitat for a variety of year-round and seasonal avian residents, as well as migrating songbirds that could occur in the area. Further, the eucalyptus trees found within the southern portion of the survey area have the potential to provide suitable nesting opportunities for raptor species (i.e., red-tailed hawk). Although heavily disturbed, the proposed trial alignment has the potential to support birds that nest on open ground, such as killdeer.

Migratory Corridors and Linkages

Habitat linkages provide links between larger undeveloped habitat areas that are separated by development. Wildlife corridors are similar to linkages, but provide specific opportunities for animals to disperse or migrate between areas. A corridor can be defined as a linear landscape feature of sufficient width to allow animal movement between two comparatively undisturbed habitat fragments. Adequate cover is essential for a corridor to function as a wildlife movement area. It is possible for a habitat corridor to be adequate for one species, but inadequate for others. Wildlife corridors are significant features for dispersal, seasonal



migration, breeding, and foraging. Additionally, open space can provide a buffer against both human disturbance and natural fluctuations in resources.

The survey area has not been identified as occurring within a Wildlife Corridor or Linkage by the City of Fontana General Plan. However, the northern and southern portions of the survey area are relatively undeveloped and consists of natural habitats which has the potential to support wildlife movement through the area in search of food, shelter, or nesting habitat. Although heavily disturbed, and constrained by development, the proposed trail alignment has the potential to provide movement opportunities for wildlife to travel north to the San Gabriel Mountains and North Etiwanda Preserve, and northeast towards the Lytle Creek Wash.

Jurisdictional Areas

There are three key agencies that regulate activities within inland streams, wetlands, and riparian areas in California. The U.S. Army Corps of Engineers (Corps) Regulatory Branch regulates discharge of dredge or fill materials into "waters of the United States" pursuant to Section 404 of the Federal Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act. Of the State agencies, the Regional Water Quality Control Board (Regional Board) regulates discharges to surface waters pursuant to Section 401 of the CWA and the California Porter-Cologne Water Quality Control Act and the CDFW regulates alterations to streambed and associated plant communities under Fish and Wildlife Code Sections 1600 *et seq*.

One (1) intermittent drainage feature, East Etiwanda Creek Channel, runs parallel to the proposed trail alignment. Flows that enter this concrete-lined flood control channel continue southwest through surrounding residential development to the Santa Ana River. As such, the on-site drainage feature exhibits a surface hydrologic connection to downstream waters of the U.S. and falls under the regulatory authority of the Corps, Regional Board, and CDFW.

However, based on the projects conceptual design plan, the proposed project will not impact the channel and no storm drains will tie into the channel. Development of the proposed trail will be limited to the disturbed dirt areas and partially paved flood control maintenance roads that parallel the East Etiwanda Creek Channel. Therefore, no impacts to jurisdictional waters will occur as a result of the proposed project. If any impacts to this drainage feature occur, the following regulatory permits will be required: Corps CWA Section 404 Nationwide Permit, Regional Board CWA Section 401 Water Quality Certification, and CDFW Section 1602 Streambed Alteration Agreement.

Special-Status Biological Resources

The CNDDB was queried for reported locations of special-status plant and wildlife species as well as special-status natural plant communities in the Cucamonga Peak, Devore, Guasti, and Fontana USGS 7.5-minute quadrangles. A search of published records of these species was conducted within these quadrangles using the CNDDB Rarefind 5 online software and CNDDB Quickview Tool in BIOS. The habitat assessment evaluated the conditions of the habitat(s) within the boundaries of the project site to determine if the existing plant communities, at the time of the survey, have the potential to provide suitable habitat(s) for special-status plant and wildlife species. In addition, species lists from both USFWS and NMFS were generated pursuant to Section 7(a)(2) of the Federal Endangered Species Act; refer to Attachments D and E, respectively.



The literature search identified forty-five (45) special-status plant species, sixty-four (64) special-status wildlife species, and five (5) special-status habitats as having the potential to occur within the Cucamonga Peak, Devore, Guasti, and Fontana quadrangles. Special-status plant and wildlife species were evaluated for their potential to occur within the project site based on habitat requirements, availability and quality of suitable habitat, and known distributions. Species and communities determined to have the potential to occur within the general site vicinity based on the record search are presented in Attachment C, *Potentially Occurring Special-Status Biological Resources*. Attachment C provides a detailed analysis regarding the potential occurrence of special-status plant and wildlife species within the project site.

Special-Status Plants

Forty-five (45) special-status plant species have been recorded in the CNDDB and CNPS in the Cucamonga Peak, Devore, Guasti, and Fontana USGS 7.5-minute quadrangles (refer to Attachment C). Based on habitat requirements for specific special-status plant species and the availability and quality of habitats needed by each species, it was determined native plant communities within the survey area have a low potential to support Catalina mariposa-lily (*Calochortus catalinae*), Plummer's mariposa-lily (*Calochortus plummerae*), Santa Ana River woollystar, and mesa horkelia (*Horkelia cuneate* var. *puberula*). All remaining special-status plants are presumed absent. However, development of the bike trail is proposed to occur within the disturbed dirt areas and partially paved flood control maintenance road that parallels the East Etiwanda Creek Channel. This area has been subject to a variety of anthropogenic disturbances including vehicle use and on-going weed abatement activities. These disturbances have greatly disturbed, if not eliminated, the natural plant communities that once occurred within the proposed project footprint. Special-status plant species are not expected to occur within the proposed tail alignment and are presumed to be absent from the proposed project footprint.

Special-Status Wildlife

Sixty-four (64) special-status wildlife species have been reported in the Cucamonga Peak, Devore, Rancho Cucamonga, and Fontana USGS 7.5-minute quadrangles (refer to Attachment C). Cooper's hawk, coastal California gnatcatcher, and Coast's hummingbird were the only special-status wildlife species observed during the field survey. Other special-status wildlife species that have a high potential to occur within the native plant communities within the survey area include Allen's hummingbird (Selasphorus sasin). Based on habitat requirements for specific special-status wildlife species and the availability and quality of habitats needed by each species, it was determined that the native plant communities within the survey area have a moderate potential to support great egret (Ardea alba), great blue heron (Ardea herodias), snowy egret (Egretta thula), Bell's sage sparrow (Artemisiospiza belli belli), coastal whiptail (Aspidoscelis tigris stejnegeri), lark sparrow (Chondestes grammacus), northern harrier (Circus cyaneus), San Bernardino kangaroo rat (), loggerhead shrike (Lanius ludovicianus), San Diego black-tailed jackrabbit (Lepus californicus bennetti), Los Angeles pocket mouse (Perognathus longimembris pacificus), and coast horned lizard (Phrynosoma blainvillii). All remaining special-status wildlife species either have a low potential to occur on the project site or are presumed to be absent from the project site based on habitat requirements, availability and quality of habitat needed by each species, and known distributions. The potential occurrence of San Bernardino kangaroo rat, burrowing owl and coastal California gnatcatcher within the project site is described in further detail below.



San Bernardino Kangaroo Rat

The San Bernardino kangaroo rat is one of three subspecies of the Merriam's kangaroo rat (*Dipodomys merriami*) and is federally listed as endangered. The species has a restricted southern California distribution, being confined to certain inland valley scrub communities, particularly alluvial scrub communities on gravelly and sandy soils adjoining rivers, streams, and drainages within Riverside and San Bernardino County. San Bernardino kangaroo rat habitat has been historically altered as a result of flood control efforts and the increased use of river resources, including surface mining operations, off-road vehicle use, roadway and housing development. Overall habitat loss is estimated at 96 percent. These alterations to San Bernardino kangaroo rat habitat listed above led to an emergency listing as endangered in 1998 (USFWS, 1998a), followed by a Final Rule issuance in that same year (USFWS, 1998b). The San Bernardino kangaroo rat is described as being confined to primary and secondary alluvial fan scrub habitats, with sandy soils deposited by fluvial (water) rather than Aeolian (wind) processes (USFWS 1998). Burrows are dug in loose soil, usually near or beneath shrubs. The species has also been found in highly disturbed areas adjacent to otherwise suitable habitat.

The project site is situated on an area known as the Etiwanda Alluvial Fan. In 2008, USFWS stated that the Etiwanda Alluvial Fan was likely occupied by a small remnant population of San Bernardino kangaroo rat, but flood control structures and urban development have disrupted the natural flood regime of the Etiwanda Alluvial Fan and resulted in poor quality habitat. Further, the USFWS concluded that areas on the Etiwanda Alluvial Fan occupied by San Bernardino kangaroo rat do not contain the primary constituent elements in the appropriate quantity and spatial arrangement necessary to sustain a core population. The northern and southern portions of the survey area are vegetated with a RAFSS plant community. This plant community has the potential to provide shelter and has greater than 50 percent canopy cover with patches of suitable soils for burrowing and foraging. However, areas surrounding the survey area primarily consist of single-family residential land uses and many of the natural alluvial fans and drainage courses that once occurred within these areas have been channelized into concrete-lined channels for flood control purposes. As a result, the survey area has been disconnected from the natural fluvial processes associated with Day Canyon Wash, East Etiwanda Canyon Wash, and San Sevaine Canyon Wash. Therefore, it was determined that San Bernardino kangaroo rat has a moderate potential to occur within the undeveloped portions of the survey area.

However, development of the bike trail is proposed to occur within the disturbed dirt areas and partially paved flood control maintenance road that parallels the East Etiwanda Creek Channel. This area has been subject to a variety of anthropogenic disturbances including vehicle use and on-going weed abatement activities. These disturbances have greatly disturbed, if not eliminated, the natural plant communities that once occurred within the proposed project footprint. San Bernardino kangaroo rat is not expected to occur within the proposed project footprint and is presumed absent from the trail alignment.

Burrowing Owl

Burrowing owl is currently designated as a California Species of Special Concern. The burrowing owl is a grassland specialist distributed throughout western North America where it occupies open areas with short vegetation and bare ground within shrub, desert, and grassland environments. Burrowing owls use a wide variety of arid and semi-arid environments with level to gently-sloping areas characterized by open vegetation and bare ground. The western burrowing owl (*A.c. hypugaea*), which occurs throughout the



western United States including California, rarely digs its own burrows and is instead dependent upon the presence of burrowing mammals (i.e., ground squirrels, coyotes, and badgers [Taxidea taxus]) whose burrows are often used for roosting and nesting. The presence or absence of colonial mammal burrows is often a major factor that limits the presence or absence of burrowing owls. Where mammal burrows are scarce, burrowing owls have been found occupying man-made cavities, such as buried and non-functioning drain pipes, stand-pipes, and dry culverts. They also require low growth or open vegetation allowing line-of-sight observation of the surrounding habitat to forage as well as watch for predators. In California, the burrowing owl breeding season extends from the beginning of February through the end of August.

It was determined during that habitat assessment that burrowing owl has a low potential to occur. The southern portion of survey area is dominated by low-growing open vegetation and has the potential to provide suitable foraging and nesting habitat for burrowing owls. The burrows found on-site were generally on the smaller end of being able to be used by this species. Further, despite a systematic search of open habitat and the small burrows on the project site, no burrowing owls or recent sign (pellets, feathers, castings, or white wash) was observed during the habitat assessment. Burrowing owls are presumed absent from the project site and focused surveys are not recommended. A pre-construction burrowing owl clearance survey would be required to ensure burrowing owl remain absent from the project site.

Coastal California Gnatcatcher

The coastal California gnatcatcher is a federally threatened species with restricted habitat requirements: it is an obligate resident of sage scrub habitats that are dominated by California sagebrush. This species generally occurs below 984 feet elevation in coastal regions and below 1,640 feet inland. It ranges from Ventura County south to San Diego County and northern Baja California and it is less common in sage scrub with a high percentage of tall shrubs. The coastal California gnatcatcher prefers habitat with more low-growing vegetation where it breeds between mid-February and the end of August, with peak activity from mid-March to mid-May. Although California gnatcatcher is known to occur within San Bernardino County, the species has a limited distribution.

California gnatcatcher was observed foraging within the mature RAFSS plant community, within the survey area, which provides suitable foraging and nesting habitat for this species. However, development of the bike trail is proposed to occur within the disturbed dirt areas and partially paved flood control maintenance road that parallels the East Etiwanda Creek Channel. This area has been subject to a variety of anthropogenic disturbances including vehicle use and on-going weed abatement activities. These disturbances have eliminated the natural plant communities that once occurred within this portion of the proposed trail alignment. As long as development remains outside of the native plant communities surrounding the proposed bike trail area, it is presumed impacts to coastal California gnatcatcher will not occur. Focused surveys for California gnatcatcher are not recommended. If coastal California gnatcatcher are observed nesting in the native habitats adjacent to the proposed trail alignment during a pre-construction nesting bird clearance survey, stringent avoidance and minimization measures will be implemented to ensure no impacts to coastal California gnatcatcher will occur (i.e., 500 foot no work buffer, noise barriers, biological monitoring).



Special-Status Plant Communities

According to the CNDDB, five (5) special-status plant communities have been reported in the Cucamonga Peak, Devore, Guasti, and Fontana USGS 7.5-minute quadrangles: California Walnut Woodland, Coast and Valley Freshwater Marsh, RAFSS, Southern Riparian Forest, and Southern Sycamore Alder Riparian Woodland (refer to Attachment C). One of these special-status plant communities occur within the project site: RAFSS. Development of the bike trail is proposed to occur within the disturbed dirt areas and partially paved flood control maintenance road that parallels the East Etiwanda Creek Channel, outside of the RAFSS plant community. Based on current design plans, the RAFSS plant community is presumed to not be impacted by development of the bike trail.

Critical Habitat

Critical Habitat refers to specific areas within the geographical range of a species at the time it is listed that include the physical or biological features that are essential to the survival and eventual recovery of that species. Maintenance of these physical and biological features requires special management considerations or protection, regardless of whether individuals or the species are present or not. In the event that a project may result in take or adverse modification to a species' designated Critical Habitat, a project proponent may be required to engage in suitable mitigation. However, consultation for impacts to Critical Habitat is only required when a project has a federal nexus. This may include projects that occur on federal lands, require federal permits (e.g., CWA Section 404 permit), or receive any federal oversight or funding. If there is a federal nexus, then the federal agency that is responsible for providing funds or permits would be consult with the USFWS.

In 2002, the USFWS designated four (4) Critical Habitat units for San Bernardino kangaroo rat. Portions of the survey area fall within the boundaries of Unit 4, which is associated with the Etiwanda Alluvial Fan and Wash (Exhibit 6, *Critical Habitat*). Since there is no federal nexus (i.e., CWA Section 404 permit, federal funding, etc.), the presence of Critical Habitat will not trigger a consultation with the USFWS under Section 7 of the federal Endangered Species Act. However, if final design results in impacts to East Etiwanda Creek and a Corps CWA Section 404 permit is required, a Section 7 consultation with the USFWS will be required to determine if a loss or adverse modification to Critical Habitat will occur.

Conclusion and Recommendations

The proposed trail alignment is located within a disturbed dirt and partially paved flood control maintenance road that parallels the East Etiwanda Creek Channel. The areas immediately surrounding the maintenance road consist largely of undeveloped native habitat areas, two freeways (Interstate 210 and Interstate 15), the East Etiwanda Creek Channel, and two residential developments. Five (5) plant communities were observed within the survey area during the habitat assessment: buckwheat scrub, Riversidian sage scrub, mature RAFSS, disturbed mature RAFSS, and intermediate RAFSS. In addition, the project site contains land cover types that would be classified as disturbed, developed, an un-vegetated basin bottom, and landscaped.

Development of the bike trail is proposed to occur within the disturbed dirt areas and partially paved flood control maintenance road that parallels the East Etiwanda Creek Channel. This area has been subject to a variety of anthropogenic disturbances including vehicle use and on-going weed abatement activities. These



disturbances have greatly disturbed, if not eliminated, the natural plant communities that once occurred within the proposed project footprint. Special-status plant and wildlife species are not expected to occur within the proposed tail alignment and are presumed to be absent from the proposed project footprint.

One (1) intermittent drainage feature, East Etiwanda Creek Channel, runs parallel to the project site. However, based on the projects conceptual design plan, the proposed project will not impact the channel and no storm drains will tie into the creek. Development of the bike trail is proposed to occur within the disturbed dirt areas and partially paved flood control maintenance road that parallels the East Etiwanda Creek Channel. Therefore, no impacts to jurisdictional waters will occur as a result of the proposed project.

Although it was determined that burrowing owl has a low potential to occur, the southern portion of survey area is dominated by low-growing open vegetation and has the potential to provide suitable foraging and nesting habitat for burrowing owls. Therefore, it is recommended that a pre-construction clearance survey be conducted prior the start of any ground disturbing or vegetation removal activities to ensure that impacts to burrowing owls will not occur. In accordance with the CDFW 2012 Staff Report on Burrowing Owl Mitigation, two (2) pre-construction clearance surveys should be conducted 14 – 30 days and 24 hours prior to any ground disturbing or vegetation removal activities.

In order to ensure compliance with the Migratory Bird Treaty Act (MBTA) and Fish and Game Code, it is recommended that construction activities and/or the removal of any trees, shrubs, or any other potential nesting habitat should be conducted outside the avian nesting season. Generally, the nesting season extends from January 1 through August 31, but can vary slightly from year to year based upon seasonal weather conditions. If ground disturbing or vegetation removal activities cannot occur outside of the nesting season, a pre-construction nesting bird clearance survey will be required to ensure that impacts to nesting birds will not occur. The clearance survey can be conducted in conjunction with the burrowing owl clearance survey and should occur no more than three days prior to the start of any ground disturbing activities.

Federal Endangered Species Act Consultation Determination

A USFWS IPaC species list for the proposed project was generated on October 24, 2018. It is determined that, pursuant to Section 7(a)(2) of the Federal Endangered Species Act, the proposed project would result in "No Effect" to the following federally-listed threatened or endangered species:

- San Bernardino Kangaroo Rat (*Dipodomys merriami parvus*)
- California Condor (*Gymnogyps californianus*)
- Coastal California Gnatcatcher (Polioptila californica californica)
- Least Bell's Vireo (Vireo bellii pusillus)
- Southwestern Willow Flycatcher (Empidonax traillii extimus)
- Mountain Yellow-legged Frog (Rana muscosa)
- Delhi Sands Flower-loving Fly (Rhaphiomidas terminatus abdominalis)
- Braunton's Milk-vetch (Astragalus brauntonii)
- San Diego Ambrosia (Ambrosia pumila)



In addition to the above-listed species, federally-designated critical habitat is identified for one species for this project: San Bernardino kangaroo rat. Since there is no federal nexus for the proposed project, the presence of Critical Habitat does not trigger a consultation with the USFWS under Section 7 of the Federal Endangered Species Act, and the project will result in No Effect to USFWS-designated critical habitat.

Essential Fish Habitat Consultation Summary

A National Marine Fisheries Service (NMFS) species list was generated on October 24, 2018. No NMFS species were identified as having the potential to occur within the project area. Therefore, the project will not affect aquatic resources and will not impact NMFS-protected resources.

Please do not hesitate to contact me at (949) 472-3454 or <u>ashley.spencer@mbakerintl.com</u> or Tom Millington at (949) 855-5777 or <u>tommillington@mbakerintl.com</u> should you have any questions or require further information.

Sincerely,

Ashley Spencer Biologist Natural Resources Thomas Millington Senior Biologist Natural Resources

Attachments:

- A. Project Exhibits
- B. Site Photographs
- C. Potentially Occurring Special-Status Biological Resources
- D. USFWS IPaC Species List
- E. NMFS Species List
- F. Flora and Fauna Compendium



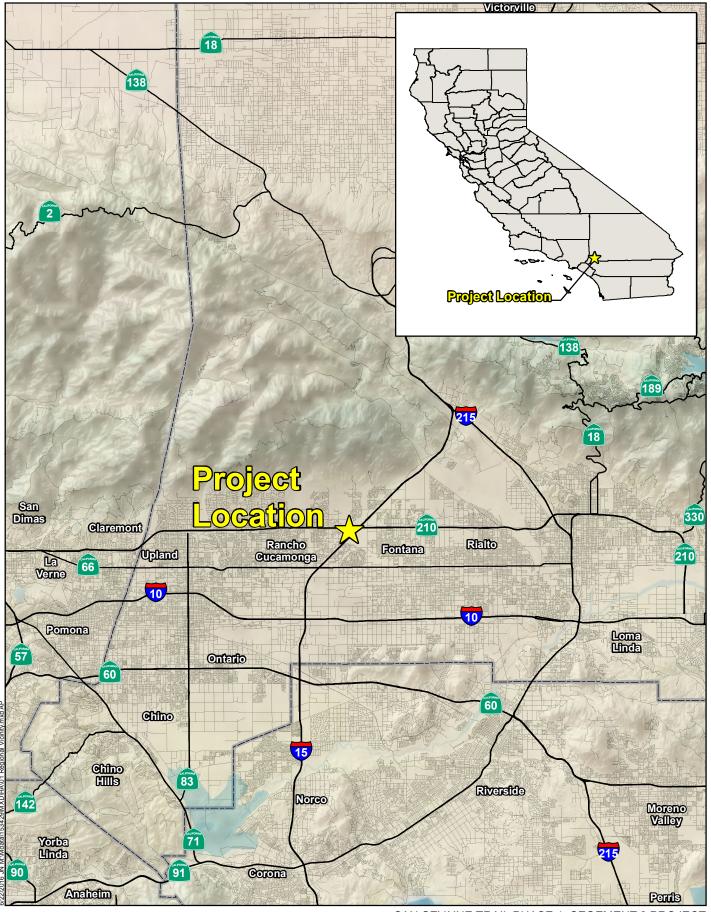
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Attachment A

Project Exhibits



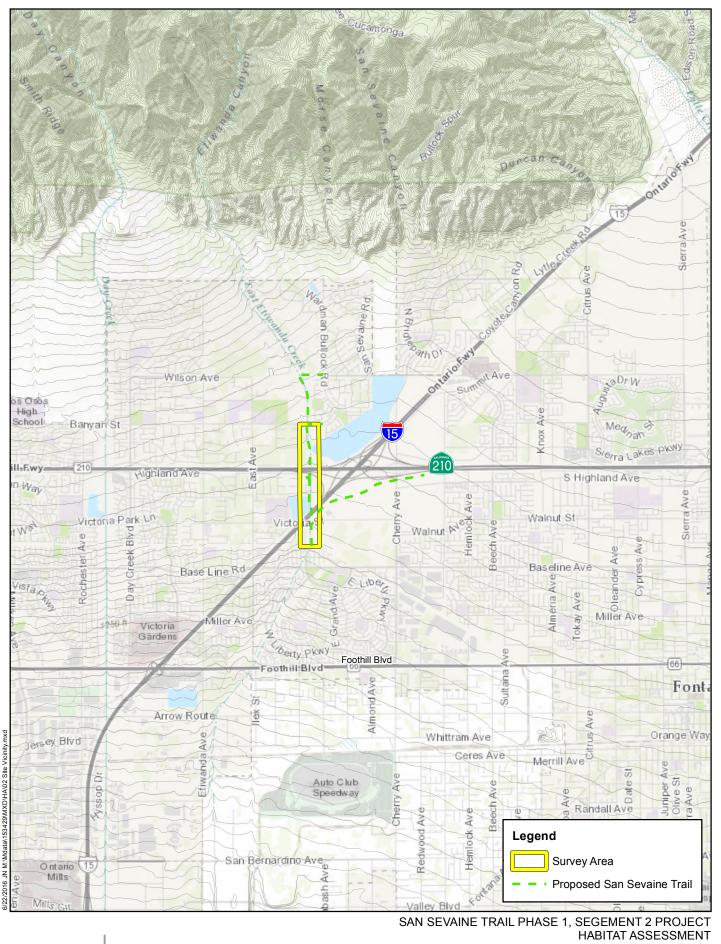






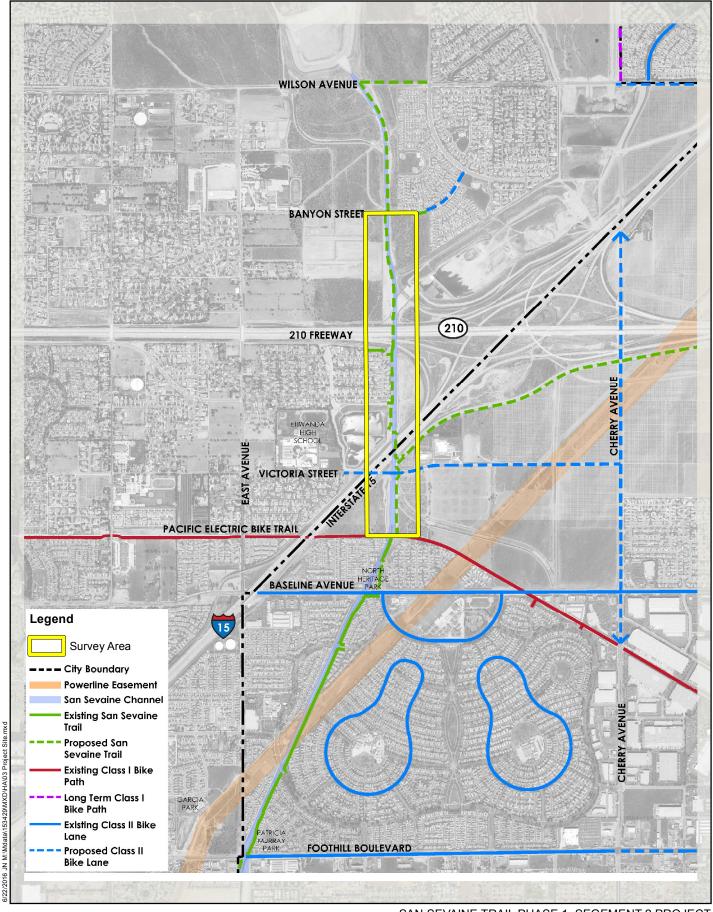
Regional Vicinity





Michael Baker INTERNATIONAL



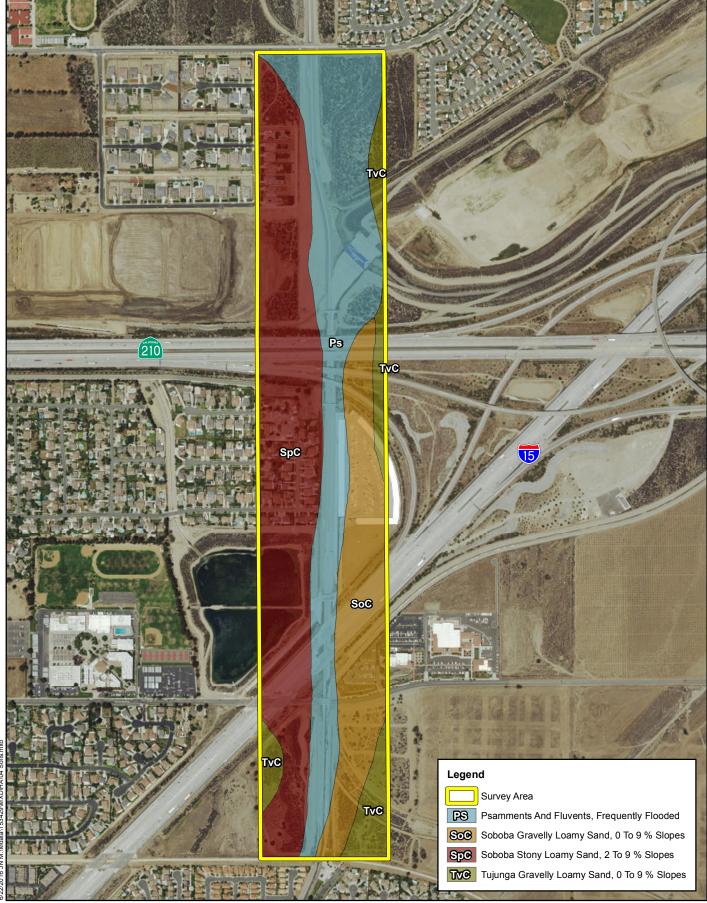


Project Site

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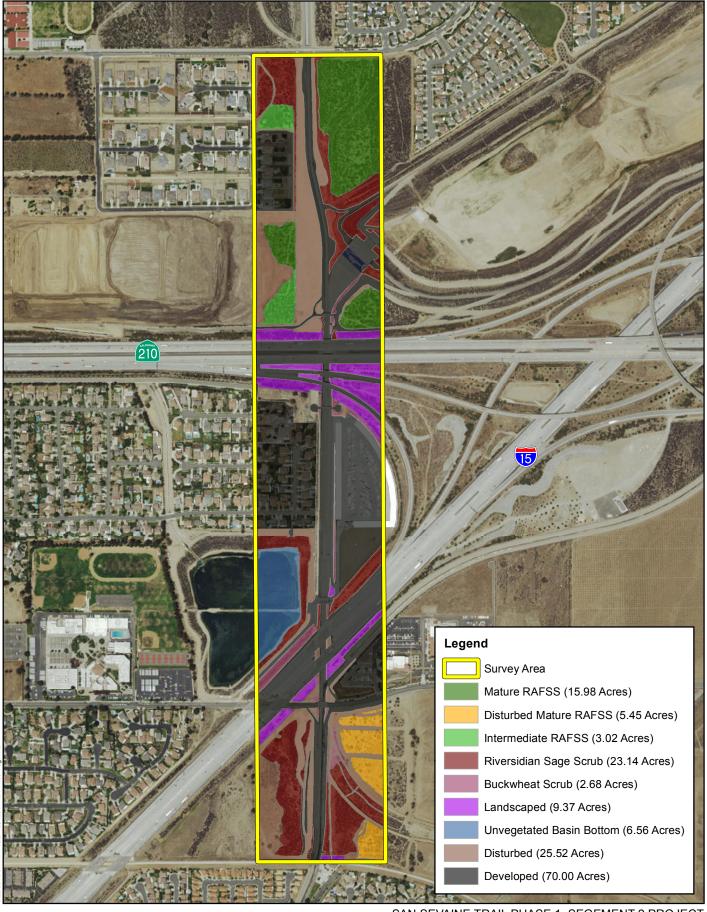








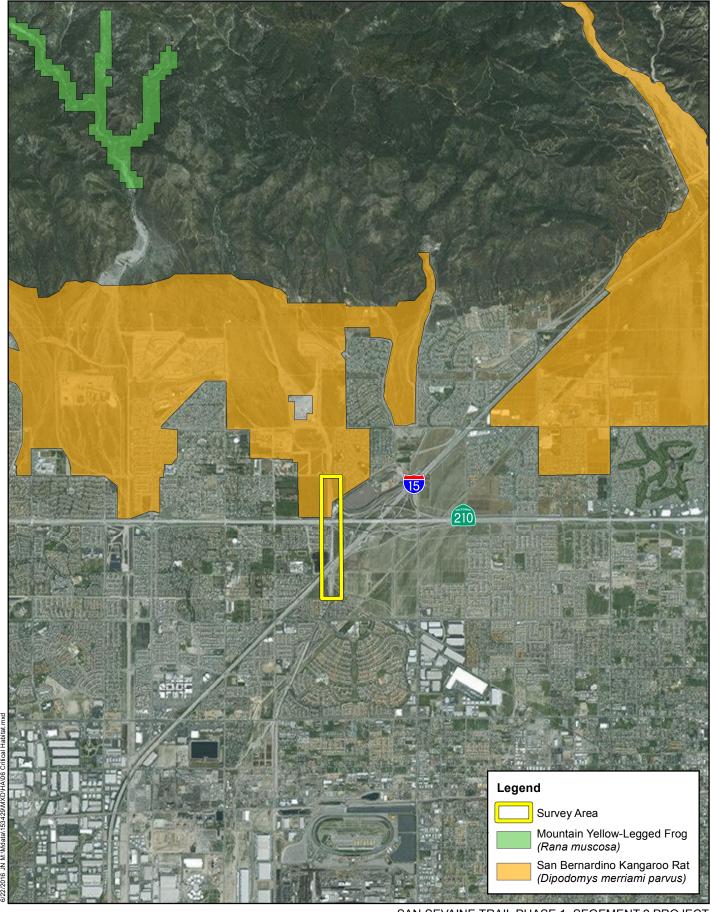




Vegetation

Michael Baker





Critical Habitat







Attachment B

Site Photographs





Photograph 1: Looking south across the Riversidian sage scrub plant community located on the northern portion of the survey area.



Photograph 2: Looking north at the Riversidian sage scrub plant community and the maintenance road where the bike trail is proposed to be developed.





Photograph 3: Looking southwest across the northern portion of the survey area.



Photograph 4: Looking south across a maintenance road located within the northern portion of the survey area.





Photograph 5: Looking southeast at the East Etiwanda Creek Channel which runs parallel to the proposed bike trail.



Photograph 6: Standing within the central portion of the survey area looking west at the maintenance road where the bike trail is proposed to be developed.





Photograph 7: Standing within the southern portion of the survey area looking south at the maintenance road where the bike trail is proposed to be developed.



Photograph 8: Looking southeast across the disturbed mature RAFSS plant community found in the central portion of the survey area.





Photograph 9: View of the area proposed as a park and ride access point found in the southern portion of the survey area.



Photograph 10: Standing within the southern portion of the survey area looking south at the East Etiwanda Creek Channel.



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Attachment C

Potentially Occurring Special-Status Biological Resources



Table C-1: Potentially Occurring Special-Status Biological Resources

Scientific Name Common Name	Sta	atus	Habitat	Observed Onsite	Potential to Occur			
SPECIAL-STATUS WILDLIFE SPECIES								
Accipiter cooperii Cooper's hawk	Fed: CA:	None WL	Generally found in forested areas up to 3,000 feet in elevation, especially near edges and rivers. Prefers hardwood stands and mature forests, but can be found in urban and suburban areas where there are tall trees for nesting. Common in open areas during nesting season.	Yes	Present. There is suitable foraging habitat within the northern and southern portions of the survey area. However, the project site does not provide suitable nesting habitat. This species is adapted to urban environments and occurs commonly. The proposed trial alignment does not provide suitable habitat.			
Accipiter striatus sharp-shinned hawk	Fed: CA:	None WL	Occurs in mixed or coniferous forests, open deciduous woodlands, thickets, and edges. Usually nests in groves of coniferous trees in mixed woods, sometimes in dense deciduous trees or in pure coniferous forest with brush or clearings nearby.	No	Presumed absent. No suitable habitat is present on site.			
Agelaius tricolor tricolored blackbird	Fed: CA:	None SSC	Range is limited to the coastal areas of the Pacific coast of North America, from Northern California to upper Baja California. Can be found in a wide variety of habitat including annual grasslands, wet and dry vernal pools and other seasonal wetlands, agricultural fields, cattle feedlots, and dairies. Occasionally forage in riparian scrub habitats along marsh borders. Basic habitat requirements for breeding include open accessible water, protected nesting substrate (freshwater marsh dominated by cattails, willows, and bulrushes [Schoenoplectus sp.]), and either flooded or thorny or spiny vegetation and suitable foraging space providing adequate insect prey.	No	Presumed absent. No suitable habitat is present on site.			
Anniella pulchra pulchra silvery legless lizard	Fed: CA:	None SSC	Occurs primarily in areas with sandy or loose loamy soils under sparse vegetation of beaches, chaparral, or pine-oak woodland; or near sycamores, oaks, or cottonwoods that grow on stream terraces. Often found under or in the close vicinity of logs, rocks, old boards, and the compacted debris of woodrat nests.	No	Presumed absent. No suitable habitat is present on site.			

Table C-1: Potentially Occurring Special-Status Biological Resources

Scientific Name Common Name	St	atus	Habitat	Observed Onsite	Potential to Occur
Aquila chrysaetos golden eagle	Fed: CA:	None FP;WL	Occupies nearly all terrestrial habitats of the western states except densely forested areas. Favors secluded cliffs with overhanging ledges and large trees for nesting and cover. Hilly or mountainous country where takeoff and soaring are supported by updrafts is generally preferred to flat habitats. Deeply cut canyons rising to open mountain slopes and crags are ideal habitat.	No	Presumed absent. Although there is marginal foraging habitat on-site, there is no suitable nesting habitat on or within the vicinity of the project site.
Ardea alba great egret	Fed: CA:	None None	Yearlong resident throughout California, except for the high mountains and deserts. Feeds and rests in fresh, and saline emergent wetlands, along the margins of estuaries, lakes, and slow-moving streams, on mudflats and salt ponds, and in irrigated croplands and pastures.	No	Moderate. Portions of the survey area provide suitable foraging habitat, in particular the water detention basins. The proposed trial alignment does not provide suitable habitat.
Ardea herodias great blue heron	Fed: CA:	None None	Fairly common all year throughout most of California, in shallow estuaries and fresh and saline emergent wetlands. Less common along riverine and rocky marine shores, in croplands, pastures, and in mountains about foothills.	No	Moderate. Portions of the survey area provide suitable foraging habitat, in particular the water detention basins. The proposed trial alignment does not provide suitable habitat.
Arizona elegans occidentalis California glossy snake	Fed: CA:	None None	Found in arid scrub, rocky washes, and chaparral habitats. Is nocturnal and burrows underground in the daytime.	No	Presumed absent. No suitable habitat is present on site.
Artemisiospiza belli belli Bell's sage sparrow	Fed: CA:	None WL	Occurs in chaparral dominated by fairly dense stands of chamise. Also found in coastal sage scrub in south of range.	No	Moderate. There is suitable foraging habitat surrounding the northern portion of the survey area. The proposed trial alignment does not provide suitable habitat.
Asio otus long-eared owl	Fed: CA:	None SSC	Requires riparian or other thickets with small, densely canopied trees for roosting and nesting. Also occurs in dense conifer stands at higher elevations.	No	Presumed absent. No suitable habitat is present on site.



Table C-1: Potentially Occurring Special-Status Biological Resources

Scientific Name Common Name	St	tatus	Habitat	Observed Onsite	Potential to Occur
Aspidoscelis tigris stejnegeri coastal whiptail	Fed: CA:	None None	Found in a variety of ecosystems, primarily hot and dry open areas with sparse foliage such as chaparral, woodland, and riparian areas.	No	Moderate. There is suitable habitat within the undeveloped portions of the survey area. The proposed trial alignment does not provide suitable habitat.
Athene cunicularia burrowing owl	Fed: CA:	None SSC	Primarily a grassland species, but it persists and even thrives in some landscapes highly altered by human activity. Occurs in open, annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. The overriding characteristics of suitable habitat appear to be burrows for roosting and nesting and relatively short vegetation with only sparse shrubs and taller vegetation.	No	Low. There is marginal habitat within survey area.
Baeolophus inornatus oak titmouse	Fed: CA:	None None	Prefers oak trees, open pine or mixed oak-pine forest. Most entirely restricted to dry slopes in California, though it ranges north to Oregon and south to Baja California.	No	Presumed absent. No suitable habitat is present on site.
Batrachoseps gabrieli San Gabriel slender salamander	Fed: CA:	None None	Known in the San Gabriel Mountains and the Mt. Baldy area of Los Angeles County and the western end of the San Bernardino Mountains in San Bernardino Co. Elevation ranges from 1,200 to 5,085 feet. Occurs on talus slopes surrounded by a variety of conifer and montane hardwood species, including bigcone spruce, pine, white fir, incense cedar, canyon live oak, black oak, and California laurel.	No	Presumed absent. No suitable habitat is present on site.
Bombus crotchii crotch bumble bee	Fed: CA:	None None	Exclusive to coastal California east towards the Sierra-Cascade Crest; less common in western Nevada.	No	Presumed absent. No suitable habitat is present on site.
Calypte costae Costa's hummingbird	Fed: CA:	None None	Desert and semi-desert, arid brushy foothills and chaparral. A desert hummingbird that breeds in the Sonoran and Mojave Deserts. Departs desert heat moving into chaparral, scrub, and woodland habitats.	Yes	Present: This species was observed foraging within the survey area during the 2016 field site investigation. The proposed trial alignment does not provide suitable habitat.

Table C-1: Potentially Occurring Special-Status Biological Resources

Scientific Name Common Name	Stati	us	Habitat	Observed Onsite	Potential to Occur
Chaetodipus fallax fallax northwestern San Diego pocket mouse	Fed: CA:	None SSC	Occurs in desert and coastal habitats in southern California, Mexico, and northern Baja California, from sea level to at least 1,400 meters above msl. Found in a variety of temperate habitats ranging from chaparral and grasslands to scrub forests and deserts. Requires low growing vegetation or rocky outcroppings, as well as sandy soils for burrowing.	No	Low: There is marginal habitat on the northern portion of the survey area. The proposed trial alignment does not provide suitable habitat.
Chaetodipus fallax pallidus pallid San Diego pocket mouse	Fed: CA:	None SSC	Common resident of sandy herbaceous areas, usually in association with rocks or course gravel in southwestern California. Occurs mainly in arid coastal and desert border areas. Habitats include coastal scrub, chamise-redshank chaparral, mixed chaparral, sagebrush, desert wash, desert scrub, desert succulent shrub, pinyon-juniper, and annual grassland.	No	Low: There is marginal habitat on the northern and southern portions of the survey area. The proposed trial alignment does not provide suitable habitat.
Charina trivirgata rosy boa		None None	Ranges from southern California and western Arizona in the United states, southward to Baja California and western Sonora in Mexico. Species often inhabits rocky areas in coastal sage scrub, chaparral, and desert environments.	No	Presumed absent. No suitable habitat is present on site.
Chondestes grammacus lark sparrow		None None	A common to fairly common resident in lowlands and foothills throughout much of California. Breeds only locally in southern deserts, but is somewhat more widespread in winter. Frequents sparse valley foothill hardwood, valley foothill hardwood-conifer, open mixed chaparral and similar brushy habitats, and grasslands with scattered trees or shrubs.	No	Moderate. There is suitable foraging habitat within the northern and southern portions of the project site. The proposed trial alignment does not provide suitable habitat.
Circus cyaneus northern harrier	Fed: CA:	None SSC	Frequents meadows, grasslands, open rangelands, desert sinks, fresh and saltwater emergent wetlands; seldom found in wooded areas. Mostly found in flat, or hummocky, open areas of tall, dense grasses moist or dry shrubs, and edges for nesting, cover, and feeding.	No	Moderate: There is suitable foraging habitat within and adjacent to the survey area. However, there is no suitable nesting habitat onsite. The proposed trial alignment does not provide suitable habitat.



Table C-1: Potentially Occurring Special-Status Biological Resources

Scientific Name Common Name	Stat	tus	Habitat	Observed Onsite	Potential to Occur
Diadophis punctatus modestus San Bernardino ringneck snake	Fed: CA:	None None	Common in open, relatively rocky areas within valley-foothill, mixed chaparral, and annual grass habitats.	No	Low. There is marginal habitat surrounding the northern and southern portions of the project site. The proposed trial alignment does not provide suitable habitat.
Dipodomys merriami parvus San Bernardino kangaroo rat	Fed: CA:	END SSC	Primarily found in Riversidian alluvial fan sage scrub and sandy loam soils, alluvial fans and flood plains, and along washes with nearby sage scrub. May occur at lower densities in Riversidian upland sage scrub, chaparral and grassland in uplands and tributaries in proximity to Riversidian alluvial fan sage scrub habitats. Tend to avoid rocky substrates and prefer sandy loam substrates for digging of shallow burrows.	No	Moderate: The RAFSS habitat within the northern portion of the survey area has the potential to provide suitable habitat. The project site is located within Critical Habitat Unit 4 – Etiwanda Alluvial Fan and Wash. The proposed trial alignment does not provide suitable habitat.
Dipodomys stephensi Stephens' kangaroo rat	Fed: CA:	END THR	Occur in arid and semi-arid habitats with some grass or brush. Prefer open habitats with less than 50% protective cover. Require soft, well-drained substrate for building burrows and are typically found in areas with sandy soil.	No	Presumed absent. No suitable habitat is present on site.
Egretta thula snowy egret	Fed: CA:	None None	Widespread in California along shores of coastal estuaries, fresh and saline emergent wetlands, ponds, slow-moving rivers, irrigation ditches, and wet fields. In southern California, common yearlong in the Imperial Valley and along the Colorado River.	No	Moderate. Portions of the survey area provide suitable foraging habitat, in particular the water detention basins. The proposed trial alignment does not provide suitable habitat.
Elanus leucurus white-tailed kite	Fed: CA:	None FP	Occurs in low elevation, open grasslands, savannah-like habitats, agricultural areas, wetlands, and oak woodlands. Uses trees with dense canopies for cover. Important prey item is the California vole.	No	Low: Although there is marginal foraging habitat on-site, there is no suitable nesting habitat on or within the vicinity of the project site. The proposed trial alignment does not provide suitable habitat.



Table C-1: Potentially Occurring Special-Status Biological Resources

Scientific Name Common Name	Stat	us	Habitat	Observed Onsite	Potential to Occur
Empidonax traillii willow flycatcher	Fed: CA:	None END	A rare to locally uncommon, summer resident in wet meadow and montane riparian habitats (2,000 to 8,000 feet) in the Sierra Nevada and Cascade Range. Most often occurs in broad, open river valleys or large mountain meadows with lush growth of shrubby willows.	No	Presumed absent. No suitable habitat is present on site.
Empidonax traillii extimus southwestern willow flycatcher	Fed: CA:	END END	Occurs in riparian woodlands in southern California. Typically requires large areas of willow thickets in broad valleys, canyon bottoms, or around ponds and lakes. These areas typically have standing or running water, or are at least moist.	No	Presumed absent. No suitable habitat is present on site.
Eremophila alpestris actia California horned lark	Fed: CA:	None WL	Prefers riparian woodlands along streams and rivers with mature, dense stands of willows, cottonwoods or smaller spring fed or boggy areas with willows or alders. Nests in hollow ground often next to grass tuft or clod of earth or manure.	No	Low. The project site and the surrounding area provide suitable foraging habitat. The proposed trial alignment does not provide suitable habitat.
Eumops perotis californicus western mastiff bat	Fed: CA:	None SSC	Primarily a cliff-dwelling species, roost generally under exfoliating rock slabs. Roosts are generally high above the ground, usually allowing a clear vertical drop of at least three meters below the entrance for flight. In California, it is most frequently encountered in broad open areas. Its foraging habitat includes dry desert washes, flood plains, chaparral, oak woodland, open ponderosa pine forest, grassland, and agricultural areas.	No	Presumed absent. No suitable habitat is present on site.
Falco mexicanus prairie falcon	Fed: CA:	None WL	Prairie falcons commonly occur in arid and semiarid shrubland and grassland community types. They are also occasionally found in open parklands within coniferous forests. Occupy open treeless terrain including prairies, deserts, riverine escarpments, canyons, foothills, and mountains in relatively arid western regions.	No	Low: Although there is marginal foraging habitat on-site, there is no suitable nesting habitat on or within the vicinity of the project site. The proposed trial alignment does not provide suitable habitat.
Icteria virens yellow-breasted chat	Fed: CA:	None SSC	Primarily found in tall, dense, relatively wide riparian woodlands and thickets of willows, vine tangles, and dense brush with well-developed understories. Nesting areas are associated with streams, swampy ground, and the borders of small ponds. Breeding habitat must be dense to provide shade and concealment. It winters south the Central America.	No	Presumed absent. No suitable habitat is present on site.



Table C-1: Potentially Occurring Special-Status Biological Resources

Scientific Name Common Name	Sta	atus	Habitat	Observed Onsite	Potential to Occur
Lampropeltis zonata (parvirubra) California mountain kingsnake (San Bernardino population)	Fed: CA:	None SSC	Found in diverse habitats including coniferous forest, oak-pine woodlands, riparian woodland, chaparral, Manzanita, and coastal sage scrub. Wooded areas near a stream with rock outcrops, talus or rotting logs that are exposed to the sun.	No	Presumed absent. No suitable habitat is present on site.
Lanius ludovicianus loggerhead shrike	Fed: CA:	None SSC	Often found in broken woodlands, shrublands, and other habitats. Prefers open country with scattered perches for hunting and fairly dense brush for nesting.	No	Moderate: There is suitable habitat within the survey area. The proposed trial alignment does not provide suitable habitat.
Larus californicus California gull	Fed: CA:	None WL	Require isolated islands in rivers, reservoirs and natural lakes for nesting, where predations pressures from terrestrial mammals are diminished. Uses both fresh and saline aquatic habitats at variable elevations and degrees of aridity for nesting and for opportunistic foraging.	No	Presumed absent. No suitable habitat is present on site. This species may fly over the site.
Lasiurus xanthinus western yellow bat	Fed: CA:	None SSC	Roosts in palm trees in foothill riparian, desert wash, and palm oasis habitats with access to water for foraging.	No	Presumed absent. No suitable habitat is present on site.
Lepus californicus bennettii San Diego black-tailed jackrabbit	Fed: CA:	None SSC	Found in diverse habitats, but primarily is found in arid regions supporting shortgrass habitats. Openness of open scrub habitat is preferred over dense chaparral.	No	Moderate. The northern and southern portions of the survey area provides suitable foraging habitat. The proposed trial alignment does not provide suitable habitat.
Microtus californicus mohavensis Mohave river vole	Fed: CA:	None SSC	Found in moist habitats including meadows, freshwater marshes and irrigated pastures in the vicinity of the Mojave River. Suitable habitat it associated with ponds and irrigation canals along with the Mojave River proper. Alfalfa fields may also provide habitat.	No	Presumed absent. No suitable habitat is present on site.
Neotoma lepida intermedia San Diego desert woodrat	Fed: CA:	None SSC	Occurs in coastal scrub communities between San Luis Obispo and San Diego Counties. Prefers moderate to dense canopies, and especially rocky outcrops.	No	Presumed absent. No suitable habitat is present on site.
Nycticorax nycticorax black-crowned night heron	Fed: CA:	None None	Common in wetlands across North America, including saltmarshes, freshwater marshes, swamps, streams, rivers, lakes, ponds, lagoons, tidal mudflats, and wet agricultural fields. They require aquatic habitat for foraging and terrestrial vegetation for cover.	No	Low. Portions of the survey area provide suitable foraging habitat, in particular the water detention basins. The proposed trial alignment does not provide suitable habitat.



Table C-1: Potentially Occurring Special-Status Biological Resources

Scientific Name Common Name	S	tatus	Habitat	Observed Onsite	Potential to Occur
Nyctinomops femorosaccus pocketed free-tailed bat	Fed: CA:	None SSC	Often found in pinyon-juniper woodlands, desert scrub, desert succulent shrub, desert riparian, desert wash, alkali desert scrub, Joshua tree, and palm oasis. Prefers rocky desert areas with high cliffs or rock outcrops/crevices for roosting.	No	Presumed absent. No suitable habitat is present on site.
Ovis canadensis nelson desert bighorn sheep	Fed: CA:	None FP	Require a variety of habitat characteristics related to topography, visibility, forage quality and quantity, and water availability (USFWS 2000). Prefer areas on or near mountainous terrain that are visually open, as well as steep and rocky. Alluvial fans and washed in flatter terrain is also used for foraging, water, and connectivity between mountainous areas. Tend to avoid dense vegetation and higher elevations that support chaparral.	No	Presumed absent. No suitable habitat is present on site.
Pandion haliaetus osprey	Fed: CA:	None WL	Associated strictly with large, fish-bearing waters, primarily in ponderosa pine through mixed conifer habitats. Uses large trees, snags, and dead-topped trees in open forest habitats for cover and nesting. Requires open, clear waters for foraging and uses rivers, lakes, reservoirs, bays, estuaries, and surf zones.	No	Low. Portions of the survey area provide marginal foraging habitat, in particular the water detention basins. The proposed trial alignment does not provide suitable habitat.
Passerculus sandwichensis beldingi Belding's savannah sparrow	Fed: CA:	None END	Restricted to southern California saltmarsh, grasslands, and meadow habitats, especially those dominated by pickleweed (<i>Salicornia</i> spp.).	No	Presumed absent. No suitable habitat is present on site.
Perognathus longimembris brevinasus Los Angeles pocket mouse	Fed: CA:	None SSC	Resides in lower elevation grasslands and coastal sage scrub communities in and around the Los Angeles Basin. Prefers open ground with fine sandy soils. May not dig extensive burrows, but instead will seek refuge under weeds and dead leaves instead.	No	Moderate: There is suitable habitat within the northern and southern portions of the survey area. The proposed trial alignment does not provide suitable habitat.
Perognathus longimembris pacificus Pacific pocket mouse	Fed: CA:	END SSC	Occurs on loose sandy soils that support sparse coastal sage scrub, grassland, and ruderal habitats.	No	Presumed absent. No suitable habitat is present on site.
Phalacrocorax auritus double-crested cormorant	Fed: CA:	None WL	Prefers water less than 30 feet deep with rocky or gravel bottom. Rests in daytime and roosts overnight beside water on offshore rocks, islands, cliffs, dead branches of trees, wharfs, jetties, or even transmission lines.	No	Presumed absent. No suitable habitat is present on site.



Table C-1: Potentially Occurring Special-Status Biological Resources

Scientific Name Common Name	Sta	ntus	Habitat	Observed Onsite	Potential to Occur
Phrynosoma blainvillii coast horned lizard	Fed: CA:	None SSC	Found in a wide variety of vegetation types including coastal sage scrub, annual grassland, chaparral, oak woodland, riparian woodland and coniferous forest. In inland areas, this species is restricted to areas with pockets of open microhabitat, created by disturbance (i.e. fire, floods, roads, grazing, fire breaks). The key elements of such habitats are loose, fine soils with a high sand fraction; an abundance of native ants or other insects; and open areas with limited overstory for basking and low, but relatively dense shrubs for refuge.	No	Moderate: There is marginal habitat within the northern and southern portions of the survey area. The proposed trial alignment does not provide suitable habitat.
Picoides nuttallii Nuttall's woodpecker	Fed: CA:	None None	A common, permanent resident of low-elevation riparian deciduous and oak habitats. Occurs in the Central Valley, Transverse and Peninsular Ranges, in the Coast Ranges north to Sonoma Co. and rarely to Humboldt Co., and in lower portions of the Cascade Range and Sierra Nevada. Tree cavities and foliage provide cover.	No	Presumed absent. No suitable habitat is present on site.
Polioptila californica californica coastal California gnatcatcher	Fed: CA:	THR SSC	Obligate resident of sage scrub habitats that are dominated by California sagebrush. This species generally occurs below 750 feet elevation in coastal regions and below 1,500 feet inland. It prefers habitat with more low-growing vegetation.	Yes	Present: This species was observed foraging within the survey area during the 2016 field survey.
Rana draytonii California red-legged frog	Fed: CA:	THR SSC	Found mainly near ponds in humid forests, woodlands, grasslands, coastal scrub, and stream sides with plant cover. Most common in lowlands or foothills. Frequently found in woods adjacent to streams. Occurs along the coast ranges from Mendocino County south and in portions of the Sierra Nevada and Cascades ranges.	No	Presumed absent. No suitable habitat is present on site.
Rana muscosa southern mountain yellow-legged frog	Fed: CA: E	END END; SSC	Prefers high-altitude mountain streams, typically those with boulders in them. Always found in the water, on rocks, or within a foot or two of the water's edge.	No	Presumed absent. No suitable habitat is present on site.
Rhaphiomidas terminatus abdominalis Delhi Sands flower-loving fly	Fed: CA:	END None	DSF habitat is limited to areas that include Delhi fine sand, an aeolian (wind-deposited) soil type. The highest density of DSF have been found in habitat that includes a variety of plants including California buckwheat, California croton, deerweed, and telegraph weed.	No	Presumed absent. No suitable habitat is present on site.
Rhinichthys osculus ssp. 3 Santa Ana speckled dace	Fed: CA:	None SSC	Occurs in the headwaters of the Santa Ana and San Gabriel Rivers, usually in areas with shallow cobble and gravel riffles. Requires permanent water flow with summer water temperatures between 17 and 20° Celsius.	No	Presumed absent. No suitable habitat is present on site.
Salvadora hexalepis virgultea coast patch-nosed snake	Fed: CA:	None SSC	Inhabits semi-arid brushy areas and chaparral in canyons, rocky hillsides, and plains. Requires friable soils for burrowing.	No	Presumed absent. No suitable habitat is present on site.



Table C-1: Potentially Occurring Special-Status Biological Resources

Scientific Name Common Name	St	atus	Habitat	Observed Onsite	Potential to Occur
Selasphorus sasin Allen's hummingbird	Fed: CA:	None None	Breeders are most common in coastal scrub, valley foothill hardwood, and valley foothill riparian habitats, but also are common in closed-cone pine cypress, urban, and redwood habitats. Occurs in a variety of woodland and scrub habitats as a migrant.	No	High. The survey area provides suitable foraging habitat. The proposed trial alignment does not provide suitable habitat.
Setophaga petechia yellow warbler	Fed: CA:	None SSC	Nests over all of California except the Central Valley, the Mojave Desert region, and high altitudes and the eastern side of the Sierra Nevada. Winters along the Colorado River and in parts of Imperial and Riverside Counties. Nests in riparian areas dominated by willows, cottonwoods, sycamores, or alders or in mature chaparral. May also use oaks, conifers, and urban areas near stream courses.	No	Presumed absent. No suitable habitat is present on site.
Spea hammondii western spadefoot	Fed: CA:	None SSC	Prefers open areas with sandy or gravelly soils, in a variety of habitats including mixed woodlands, grasslands, coastal sage scrub, chaparral, sandy washes, lowlands, river floodplains, alluvial fans, playas, alkali flats, foothills, and mountains. Rain pools which do not contain bullfrogs, fish, or crayfish are necessary for breeding.	No	Presumed absent. No suitable habitat is present on site.
Spizella atrogularis black-chinned sparrow	Fed: CA:	None None	Breeds locally and uncommonly in foothills bordering Central Valley and commonly on arid mountain sloped of southern CA. Occurs mostly on sloping ground in mixed chaparral, chamise-redshank chaparral, sagebrush, and similar brushy habitats.	No	Presumed absent. No suitable habitat is present on site.
Spizella breweri Brewer's sparrow	Fed: CA:	None None	Breeds on sagebrush flats and other open scrubby areas. Winters from just south of the breeding range in south-western USA to central Mexico.	No	Presumed absent. No suitable habitat is present on site.
Strix occidentalis occidentalis California spotted owl	Fed: CA:	None SSC	Primarily associated with oak and oak-conifer habitats and uses dense, multi-layered canopy cover for roost seclusion. Requires mature forest with permanent water and suitable nesting trees and snags.	No	Presumed absent. No suitable habitat is present on site.
Thamnophis hammondii two-striped garter snake	Fed: CA:	None SSC	Occurs in or near permanent fresh water, often along streams with rocky beds and riparian growth up to 7,000 feet in elevation.	No	Presumed absent. No suitable habitat is present on site.



Table C-1: Potentially Occurring Special-Status Biological Resources

Scientific Name Common Name	Sta	atus	Habitat	Observed Onsite	Potential to Occur
Vireo bellii pusillus least Bell's vireo	Fed: CA:	None SSC	Primarily occupy riverine/riparian habitat that typically features dense cover within 1 -2 meters of the ground and a dense, stratified canopy. Typically it is associated with southern willow scrub, cottonwood-willow forest, mulefat scrub, sycamore alluvial woodlands, coast live oak riparian forest, arroyo willow riparian forest, or mesquite in desert localities. It uses habitat which is limited to the immediate vicinity of water courses, 2,000 feet elevation in the interior.	No	Presumed absent. No suitable habitat is present on site.
Xanthocephalus xanthocephalus yellow-headed blackbird	Fed: CA:	None SSC	Occurs in freshwater emergent wetlands, and moist, open areas along croplands and mud flats of lacustrine habitats. Prefers to nest in dense wetland vegetation characterized by tules, cattails, or other similar plant species along the border of lakes and ponds.	No	Presumed absent. No suitable habitat is present on site.
		SF	ECIAL-STATUS PLANT SPECIES		
Ambrosia monogyra singlewhorl burrobrush	Fed: CA: CNPS:	None None 2B.2	Found in sandy soils within chaparral and Sonoran desert scrub habitat. Found at elevations ranging from 33 to 1,640 feet. Blooming period is from August to November.	No	Presumed absent. No suitable habitat is present on site.
Arctostaphylos glandulosa ssp. gabrielensis San Gabriel manzanita	Fed: CA: CNPS:	None None 1B.2	Habitat includes rocky chaparral. Found at elevations ranging from 1,952 to 4,921 feet. Blooming period is March.	No	Presumed absent. No suitable habitat is present on site.
Asplenium vespertinum western spleenwort	Fed: CA: CNPS:	None None 4.2	Occurs on rocky soils in chaparral, cismontane woodland, and coastal scrub habitats. Found at elevations ranging from 590 to 3,280 feet. Blooming period is from February to June.	No	Presumed absent. No suitable habitat is present on site.
Berberis nevinii Nevin's barberry	Fed: CA: CNPS:	END END 1B.1	Found in sandy or gravelly soils within chaparral, cismontane woodland, coastal scrub, and riparian scrub habitats. Found at elevations ranging from 230 to 2,707 feet. Blooming period is from February to June.	No	Presumed absent. No suitable habitat is present on site.
Calochortus catalinae Catalina mariposa-lily	Fed: CA: CNPS:	None None 4.2	Grows in chaparral, cismontane woodland, coastal scrub, valley and foothill grassland. Found at elevations ranging from 49 to 2,297 feet. Blooming period is from February to June.	No	Low: There is marginal habitat within the northern and southern portions of the survey area.
Calochortus plummerae Plummer's mariposa-lily	Fed: CA: CNPS:	None None 4.2	Prefers openings in chaparral, foothill woodland, coastal sage scrub, valley foothill grasslands, cismontane woodland, lower montane coniferous forest and yellow pine forest. Often found on dry, rocky slopes and soils and brushy areas. Can be very common after a fire. Found at elevations ranging from 459 to 6,299 feet. Blooming period is from May to July.	No	Low: There is marginal habitat within the northern and southern portions of the survey area.



Table C-1: Potentially Occurring Special-Status Biological Resources

Scientific Name Common Name	Sta	atus	Habitat	Observed Onsite	Potential to Occur
Chorizanthe parryi var. parryi Parry's spineflower	Fed: CA: CNPS:	None None 1B.2	Occurs on sandy and/or rocky soils in chaparral, coastal sage scrub, and sandy openings within alluvial washes and margins. Found at elevations ranging from 951 to 3,773 feet. Blooming period is from April to June.	No	Presumed absent. No suitable habitat is present on site.
Chorizanthe xanti var. leucotheca white-bracted spineflower	Fed: CA: CNPS:	None None 1B.2	Found in sandy or gravelly soils within coastal scrub (alluvial fans), Mojavean desert scrub, pinyon and juniper woodland habitats. Found at elevations ranging from 984 to 3,937 feet. Blooming period is from April to June.	No	Presumed absent. No suitable habitat is present on site.
Cladium californicum California saw-grass	Fed: CA: CNPS:	None None 2B.2	Grows in alkaline or freshwater marshes and swamps. Also meadows and seeps. Found at elevations ranging from 197 to 2,838 feet. Blooming period is from June to September.	No	Presumed absent. No suitable habitat is present on site.
Claytonia lanceolata var. peirsonii Peirson's spring beauty	Fed: CA: CNPS:	None None 3.1	Habitats include subalpine coniferous forest and upper montane coniferous forest. Found at elevations ranging from 4,954 to 9,005 feet. Blooming period is from March to June.	No	Presumed absent. No suitable habitat is present on site.
Deinandra paniculata paniculate tarplant	Fed: CA: CNPS:	None None 4.2	Occurs in coastal scrub, vernal pools, valley and foothill grassland habitats. Found at elevations ranging from 82 to 3,084 feet. Blooming period is from April to November.	No	Presumed absent. No suitable habitat is present on site.
Dodecahema leptoceras slender-horned spineflower	Fed: CA: CNPS:	END END 1B.1	Found in sandy soils within chaparral, cismontane woodland, and coastal scrub habitats. Found at elevations ranging from 656 to 2,493 feet. Blooming period is from April to June.	No	Presumed absent. No suitable habitat is present on site.
Eriastrum densifolium ssp. sanctorum Santa Ana River woollystar	Fed: CA: CNPS:	END END 1B.1	Grows in sandy or gravelly soils within chaparral and coastal scrub habitat. Found at elevations ranging from 299 to 2,001 feet. Blooming period is from April to September.	No	Low: There is marginal habitat within the northern portion of the survey area.
Eriogonum microthecum var. alpinum northern limestone buckwheat	Fed: CA: CNPS:	None None 4.3	Associated with alpine dwarf scrub and great basin scrub. Found at elevations ranging from 8,202 to 10,862 feet. Blooming period is from July to September.	No	Presumed absent. No suitable habitat is present on site.
Eriogonum microthecum var. johnstonii Johnston's buckwheat	Fed: CA: CNPS:	None None 1B.3	Grows in rocky soils within subalpine coniferous forest and upper montane coniferous forest. Found at elevations ranging from 6,000 to 9,600 feet. Blooming period is from July to September.	No	Presumed absent. No suitable habitat is present on site.
Eriogonum umbellatum var. minus alpine sulphur-flowered buckwheat	Fed: CA: CNPS:	None None 4.3	Occurs in gravelly soils within subalpine coniferous forest and upper montane coniferous forests. Found at elevations ranging from 5,906 to 10,066 feet. Blooming period is from June to September.	No	Presumed absent. No suitable habitat is present on site.
Eriophyllum lanatum var. obovatum southern Sierra woolly sunflower	Fed: CA: CNPS:	None None 4.3	Found in sandy loam soils within lower and upper montane coniferous forests. Found at elevations ranging from 3,655 to 8,202 feet. Blooming period is from June to July.	No	Presumed absent. No suitable habitat is present on site.

Table C-1: Potentially Occurring Special-Status Biological Resources

Scientific Name Common Name	Sta	ntus	Habitat	Observed Onsite	Potential to Occur
Fritillaria pinetorum pine fritillary	Fed: CA: CNPS:	None None 4.3	Associated with granitic and metamorphic soils within chaparral, lower montane coniferous forest, upper montane coniferous forest, subalpine coniferous forest, pinyon and juniper woodland. Found at elevations ranging from 5,692 to 10,826 feet. Blooming period is from May to September.	No	Presumed absent. No suitable habitat is present on site.
Galium angustifolium ssp. gabrielense San Antonio Canyon bedstraw	Fed: CA: CNPS:	None None 4.3	Grows in granitic, sandy or rocky soils within chaparral and lower montane coniferous forests. Found at elevations ranging from 3,937 to 8,694 feet. Blooming period is from April to August.	No	Presumed absent. No suitable habitat is present on site.
Galium jepsonii Jepson's bedstraw	Fed: CA: CNPS:	None None 4.3	Found in granitic, rocky or gravelly soils within lower montane coniferous forest and upper montane coniferous forest habitats. Found at elevations ranging from 5,052 to 8,202 feet. Blooming period is from July to August.	No	Presumed absent. No suitable habitat is present on site.
Galium johnstonii Johnston's bedstraw	Fed: CA: CNPS:	None None 4.3	Preferred habitats include chaparral, riparian woodland, lower montane coniferous forest, pinyon and juniper woodland. Found at elevations ranging from 4,003 to 7,546 feet. Blooming period is from June to July.	No	Presumed absent. No suitable habitat is present on site.
Heuchera caespitosa urn-flowered alumroot	Fed: CA: CNPS:	None None 4.3	Grows in rocky soils within cismontane woodland, lower montane coniferous forest, riparian forest, and upper montane coniferous forest. Found at elevations ranging from 3,789 to 8,694 feet. Blooming period is from May to August.	No	Presumed absent. No suitable habitat is present on site.
Horkelia cuneata var. puberula mesa horkelia	Fed: CA: CNPS:	None None 1B.1	Occurs on sandy or gravelly soils in chaparral, woodlands, and coastal scrub plant communities. Found at elevations ranging from 230 to 2,657 feet. Blooming period is from February to September.	No	Low: There is marginal habitat within the northern and southern portions of the survey area.
Juglans californica southern California black walnut	Fed: CA: CNPS:	None None 4.2	Found in chaparral, cismontane woodland, coastal scrub, and riparian woodland habitats. Found at elevations ranging from 164 to 2,953 feet. Blooming period is from March to August.	No	Presumed absent. No suitable habitat is present on site.
Juncus duranii Duran's rush	Fed: CA: CNPS:	None None 4.3	Habitats include lower and upper montane coniferous forests, meadows and seeps. Found at elevations ranging from 5,801 to 9,199 feet. Blooming period is from July to August.	No	Presumed absent. No suitable habitat is present on site.
Lepechinia fragrans fragrant pitcher sage	Fed: CA: CNPS:	None None 4.2	Occurs in chaparral habitat. Found at elevations ranging from 66 to 4,298 feet. Blooming period is from March to October.	No	Presumed absent. No suitable habitat is present on site.
Lilium humboldtii ssp. ocellatum ocellated humboldt lily	Fed: CA: CNPS:	None None 4.2	Found in openings within chaparral, cismontane woodland, coastal scrub, lower montane coniferous forest, and riparian woodland habitats. Found at elevations ranging from 98 to 5,906 feet in elevation. Blooming period is from March to August.	No	Presumed absent. No suitable habitat is present on site.



Table C-1: Potentially Occurring Special-Status Biological Resources

Scientific Name Common Name	Stat	tus	Habitat	Observed Onsite	Potential to Occur
Lilium parryi lemon lily	Fed: CA: CNPS:	None None 1B.2	Prefers lower montane coniferous forest, riparian forests, upper montane coniferous forests, meadows and seeps. Found at elevations ranging from 4,003 to 9,006 feet. Blooming period is from July to August.	No	Presumed absent. No suitable habitat is present on site.
Linanthus concinnus San Gabriel linanthus	Fed: CA: CNPS:	None None 1B.2	Occurs in rocky, openings within chaparral, lower montane and upper montane coniferous forests. Found at elevations ranging from 4,987 to 9,186 feet. Blooming period is from April to July.	No	Presumed absent. No suitable habitat is present on site.
Lycium parishii Parish's desert-thorn	Fed: CA: CNPS:	None None 2B.3	Habitats include coastal scrub and Sonoran desert scrub. Found at elevations ranging from 443 to 3,281 feet. Blooming period is from March to April.	No	Presumed absent. No suitable habitat is present on site.
<i>Monardella australis</i> ssp. <i>jokerstii</i> Jokerst's monardella	Fed: CA: CNPS:	None None 1B.1	Habitat includes chaparral and lower montane coniferous forest. Found on steep or talus slopes between breccia, secondary alluvial benches along drainages and washes. Found at elevations ranging from 4,429 to 5,741 feet. Blooming period is from July to September.	No	Presumed absent. No suitable habitat is present on site.
Monardella saxicola rock monardella	Fed: CA: CNPS:	None None 4.2	Found in rocky, usually serpentinite soils within closed-cone coniferous forest, chaparral, and lower montane coniferous forest habitats. Found at elevations ranging from 1,640 to 5,906 feet. Blooming period is from June to September.	No	Presumed absent. No suitable habitat is present on site.
Muhlenbergia californica California muhly	Fed: CA: CNPS:	None None 4.3	Found in chaparral, coastal scrub, lower montane coniferous forest, meadows and seeps. Found at elevations ranging from 328 to 6,562 feet. Blooming period is from June to September.	No	Presumed absent. No suitable habitat is present on site.
Navarretia prostrate prostrate vernal pool navarretia	Fed: CA: CNPS:	None None 1B.1	Grows in coastal scrub, vernal pools, meadows and seeps, valley and foothill grassland habitats. Found at elevations ranging from 10 to 3,970 feet. Blooming period is from April to July.	No	Presumed absent. No suitable habitat is present on site.
Opuntia basilaris var. brachyclada short-joint beavertail	Fed: CA: CNPS:	None None 1B.2	Habitats include chaparral, Joshua tree woodland, Mojavean desert scrub, pinyon and juniper woodlands. Found at elevations ranging from 1,394 to 5,906 feet. Blooming period is from April to August.	No	Presumed absent. No suitable habitat is present on site.
Oreonana vestita woolly mountain-parsley	Fed: CA: CNPS:	None None 1B.3	Associated with gravel and talus soils within lower montane coniferous forest, subalpine coniferous forest, and upper montane coniferous forest. Found at elevations ranging from 5,299 to 11,483 feet. Blooming period is from March to September.	No	Presumed absent. No suitable habitat is present on site.
Phacelia mohavensis Mojave phacelia	Fed: CA: CNPS:	None None 4.3	Occurs in sandy or gravelly soils within cismontane woodland, lower montane coniferous forest, meadows and seeps, pinyon and juniper woodland. Found at elevations ranging from 4,593 to 8,202 feet. Blooming period is from April to August.	No	Presumed absent. No suitable habitat is present on site.



Table C-1: Potentially Occurring Special-Status Biological Resources

Scientific Name Common Name	Sta	atus	Habitat	Observed Onsite	Potential to Occur
Phacelia stellaris Brand's star phacelia	Fed: CA: CNPS:	None None 1B.1	Found in coastal dunes and coastal scrub habitats. Found at elevations ranging from 3 to 1,312 feet. Blooming period is from March to June.	No	Presumed absent. No suitable habitat is present on site.
Sagittaria sanfordii Sanford's arrowhead	Fed: CA: CNPS:	None None 1B.2	Grows in freshwater marshes and swamps. Found at elevations ranging from 0 to 2,132 feet. Blooming period is from May to November.	No	Presumed absent. No suitable habitat is present on site.
Senecio aphanactis chaparral ragwort	Fed: CA: CNPS:	None None 2B.2	Occurs in alkaline soils within chaparral, cismontane woodland, and coastal scrub habitats. Found at elevations ranging from 49 to 2,625 feet. Blooming period is from January to May.	No	Presumed absent. No suitable habitat is present on site.
Senecio astephanus San Gabriel ragwort	Fed: CA: CNPS:	None None 4.3	Found on rocky slopes within coastal bluff scrub and chaparral habitats. Found at elevations ranging from 1,312 to 4,921 feet. Blooming period is from May to July.	No	Presumed absent. No suitable habitat is present on site.
Sphenopholis obtusata prairie wedge grass	Fed: CA: CNPS:	None None 2B.2	Grows in mesic soils within cismontane woodland, meadows and seeps. Found at elevations ranging from 984 to 6,562 feet. Blooming period is from April to July.	No	Presumed absent. No suitable habitat is present on site.
Streptanthus bernardinus Laguna Mountains jewelflower	Fed: CA: CNPS:	None None 4.3	Associated with chaparral and lower montane coniferous forest. Found at elevations ranging from 2,198 to 8,202 feet. Blooming period is from May to August.	No	Presumed absent. No suitable habitat is present on site.
Symphyotrichum defoliatum San Bernardino aster	Fed: CA: CNPS:	None None 1B.2	Grows in cismontane woodland, coastal scrub, lower montane coniferous forest, meadows and seeps, marshes and swamps, valley and foothill grassland (vernally mesic). Can be found growing near ditches, streams, and springs within these habitats. Found at elevations ranging from 7 to 6,693 feet. Blooming period is from July to November.	No	Presumed absent. No suitable habitat is present on site.
Viola pinetorum var. grisea grey-leaved violet	Fed: CA: CNPS:	None None 1B.3	Associated with upper montane coniferous forest, subalpine coniferous forest, meadows and seeps. Found at elevations ranging from 4,921 to 11,155 feet. Blooming period is from April to July.	No	Presumed absent. No suitable habitat is present on site.
SPECIAL-STATUS PLANT COMMUNITES					
California Walnut Woodland		Sensitive bitat	Occurs on valley slopes and in valley bottoms, as well as around rocky outcrops. This habitat usually occurs in areas with relatively moist, fine soils. It can intergrade with coast live oak woodland and coast live oak forest in more mesic areas. The canopy is relatively open and is dominated by California walnut with a grassy understory.	No	Absent



Table C-1: Potentially Occurring Special-Status Biological Resources

Scientific Name Common Name	Status	Habitat	Observed Onsite	Potential to Occur
Coastal and Valley Freshwater Marsh	CDFW Sensitive Habitat	Found along the coast and in coastal valleys near river mouths and around the margins of lakes and springs. Site lacks significant current and is permanently flooded by fresh water. Prolonged saturation permits accumulations of deep, peaty soils.	No	Absent
Riversidian Alluvial Fan Sage Scrub	CDFW Sensitive Habitat	Occur within broad washes of sandy alluvial drainages that carry rainfall runoff sporadically in winter and spring, but remain relatively dry through the remainder of the year. Is restricted to drainages and floodplains with very sandy substrates that have a dearth of decomposed plant material. These areas do not develop into riparian woodland or scrub due to the limited water resources and scouring by occasional floods.	Present	Present. RAFSS habitat can be found in the northern portion of the survey area.
Southern Riparian Forest	CDFW Sensitive Habitat	Typically a younger successional stage of riparian forest, due to disturbance or more frequent flooding. Plant species include willow species, elderberry, oak species, sycamore, cottonwood, and smaller shrubs.	No	Absent
Southern Sycamore Alder Riparian Woodland	CDFW Sensitive Habitat	Below 2,000 meters in elevation, sycamore and alder often occur along seasonally-flooded banks; cottonwoods and willows also are often present. Poison-oak, mugwort, elderberry and wild raspberry may be present in the understory.	No	Absent

U.S. Fish and Wildlife Service (USFWS) - Federal

END- Federal Endangered THR- Federal Threatened

California Department of Fish and Wildlife (CDFW) - California

END- California Endangered SSC- California Species of Concern

WL- Watch List

FP- California Fully Protected

California Native Plant Society (CNPS) California Rare Plant Rank

- 1B Plants Rare, Threatened, or Endangered in California and Elsewhere
- 2B Plants Rare, Threatened, or Endangered in California, but More Common Elsewhere
- 4 Plants of Limited Distribution A Watch List

Threat Ranks

- 0.1- Seriously threatened in California
- 0.2- Moderately threatened in California
- 0.3- Not very threatened in California

Attachment D

USFWS IPaC Species List





United States Department of the Interior

FISH AND WILDLIFE SERVICE

Carlsbad Fish And Wildlife Office 2177 Salk Avenue - Suite 250 Carlsbad, CA 92008-7385 Phone: (760) 431-9440 Fax: (760) 431-5901

http://www.fws.gov/carlsbad/



In Reply Refer To: October 24, 2018

Consultation Code: 08ECAR00-2019-SLI-0122

Event Code: 08ECAR00-2019-E-00299 Project Name: San Sevaine Trail, Segment 2

Subject: List of threatened and endangered species that may occur in your proposed project

location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, and proposed species, designated critical habitat, and candidate species that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seg.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Carlsbad Fish And Wildlife Office 2177 Salk Avenue - Suite 250 Carlsbad, CA 92008-7385 (760) 431-9440

Project Summary

Consultation Code: 08ECAR00-2019-SLI-0122

Event Code: 08ECAR00-2019-E-00299

Project Name: San Sevaine Trail, Segment 2

Project Type: TRANSPORTATION

Project Description: Implementation of the proposed Project would involve the construction of

a 1.25-mile-long new asphalt trail for use by bicyclists and pedestrians within the San Sevaine flood control channel right-of-way. The trail alignment would run parallel to the existing flood control channel, as it would utilize the existing flood control maintenance road that currently runs parallel to the flood control channel. The new segment of the San Sevaine Trail is planned to be a continuous 12-foot-wide asphalt path with 4-foot decomposed granite shoulders, and would include four granite block benches, LED-lighted bollards, directional and interpretive trail signage, a chain link fence, potable water connection, and striping and

pavement legend to alert users of the bike lane.

The proposed trail would be completely separate from major roadways and would be classified as a Class I bicycle and pedestrian path. However, the trail alignment would cross two freeway underpass structures (I-210 and I-15) and one major roadway (Victoria Street), as described below.

I-210 and I-15: The existing flat surface on the west side of the San Sevaine channel would be paved to cross under the I-15 abutment wall. In addition, under bridge clearances on both the south and northbound I-15 undercrossing along the channel would require excavation and construction of retaining walls. This work would be coordinated with Caltrans District 8, including the procurement of encroachment permits.

Victoria Street: A signalized mid-block crossing would be installed in order to connect south across Victoria Street to the east bank of the San Sevaine channel. This would include two options; one option would follow the trail along the west side of the channel and the other option would follow the trail along the east side of the channel south, in order to connect with the existing Pacific Electric Inland Empire Trail. In order to increase trail user safety, a road diet may also be a component of the proposed crossing design at Victoria Street, which would involve a potential roadway lane width reduction or re-channelization and installation of a pedestrian safety island.

Construction would potentially begin in the fall of 2019, would continue for approximately six months, and would include site preparation, asphalt paving, landscaping, and installation of lighted bollards, signage, benches, and fences. Construction would involve the use of various types of construction equipment including tractors/loaders/backhoes, forklifts, welders, a paver, rollers, and small-scale equipment such as air compressors, trenchers, mixers, and saws. Equipment would be stored onsite when not in use in designated staging areas along the trail alignment. Operation of the Project would commence in 2020.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/34.13394283955447N117.504308502258W



Counties: San Bernardino, CA

Endangered Species Act Species

There is a total of 9 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME STATUS

San Bernardino Merriam's Kangaroo Rat *Dipodomys merriami parvus*There is **final** critical habitat for this species. Your location overlaps the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/2060

Endangered

Event Code: 08ECAR00-2019-E-00299

Birds

NAME STATUS

California Condor Gymnogyps californianus

Endangered

Population: U.S.A. only, except where listed as an experimental population

There is **final** critical habitat for this species. Your location is outside the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/8193

Coastal California Gnatcatcher *Polioptila californica californica*

Threatened

There is **final** critical habitat for this species. Your location is outside the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/8178

Least Bell's Vireo Vireo bellii pusillus

Endangered

There is **final** critical habitat for this species. Your location is outside the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/5945

Southwestern Willow Flycatcher *Empidonax traillii extimus*

Endangered

There is **final** critical habitat for this species. Your location is outside the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/6749

Amphibians

NAME STATUS

Mountain Yellow-legged Frog Rana muscosa

Endangered

Population: Southern California DPS

There is **final** critical habitat for this species. Your location is outside the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/8037

Insects

NAME

Delhi Sands Flower-loving Fly Rhaphiomidas terminatus abdominalis

No critical habitat has been designated for this species.

Species profile: https://ecos.fws.gov/ecp/species/1540

Endangered

Flowering Plants

NAME STATUS

Braunton's Milk-vetch Astragalus brauntonii

Endangered

There is **final** critical habitat for this species. Your location is outside the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/5674

San Diego Ambrosia Ambrosia pumila

Endangered

There is **final** critical habitat for this species. Your location is outside the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/8287

Critical habitats

There is 1 critical habitat wholly or partially within your project area under this office's jurisdiction.

NAME STATUS

San Bernardino Merriam's Kangaroo Rat *Dipodomys merriami parvus* https://ecos.fws.gov/ecp/species/2060#crithab

Final

Attachment E

NMFS Species List



Table E-1: NMFS Species List*

Quad Names: Cucamonga Peak, Devore, Guasti, and Fontana Quad Numbers: 34117-B5, 34117-B4, 34117-A5, and 34117-A4

ESA Anadromous Fish			
SONCC Coho ESU (T)			
CCC Coho ESU (E)			
CC Chinook Salmon ESU (T)			
CVSR Chinook Salmon ESU (T)			
SRWR Chinook Salmon ESU (E)			
NC Steelhead DPS (T)			
CCC Steelhead DPS (T)			
SCCC Steelhead DPS (T)			
SC Steelhead DPS (E)			
CCV Steelhead DPS (T)			
Eulachon (T)			
sDPS Green Sturgeon (T)			
ESA Anadromous Fish Critical Habitat			
SONCC Coho Critical Habitat			
CCC Coho Critical Habitat			
CC Chinook Salmon Critical Habitat			
CVSR Chinook Salmon Critical Habitat			
SRWR Chinook Salmon Critical Habitat			
NC Steelhead Critical Habitat			
CCC Steelhead Critical Habitat			
SCCC Steelhead Critical Habitat			
SC Steelhead Critical Habitat			
CCV Steelhead Critical Habitat			
Eulachon Critical Habitat			
sDPS Green Sturgeon Critical Habitat			
ESA Marine Invertebrates			
Range Black Abalone (E)			
Range White Abalone (E)			
ESA Marine Invertebrates Critical Habitat			
Black Abalone Critical Habitat			
ESA Sea Turtles			
East Pacific Green Sea Turtle (T)			
Olive Ridley Sea Turtle (T/E)			
Leatherback Sea Turtle (E)			
North Pacific Loggerhead Sea Turtle (E)			
ESA Whales			
Blue Whale (E)			
Fin Whale (E)			
Humpback Whale (E)			
Southern Resident Killer Whale (E)			
North Pacific Right Whale (E)			
Sei Whale (E)			
Sperm Whale (E)			



Table E-1: NMFS Species List*

Quad Names: Cucamonga Peak, Devore, Guasti, and Fontana Quad Numbers: 34117-B5, 34117-B4, 34117-A5, and 34117-A4

ESA Pinnipeds		
Guadalupe Fur Seal (T)		
Steller Sea Lion Critical Habitat		
Essential Fish Habitat		
Coho EFH		
Chinook Salmon EFH		
Groundfish EFH		
Coastal Pelagics EFH		
Highly Migratory Species EFH		
MMPA Species		
MMPA Cetaceans		
MMPA Pinnipeds		
*NIMES Species List downloaded from the NOAA Eightnies West Coast Design	Wahaita wia tha fallowing links	

*NMFS Species List downloaded from the NOAA Fisheries – West Coast Region Website via the following link: http://www.westcoast.fisheries.noaa.gov/maps_data/california_species_list_tools.html

Attachment F

Flora and Fauna Compendium



Table F – 1: Plant Species

Scientific Name	Common Name
Acacia redolens	trailing acacia
Acmispon glaber	deerweed
Adenostoma fasciculatum	chamise
Artemisia arbuscula	black sagebrush
Artemisia californica	California sagebrush
Astragalus pomenensis	Pomona milkvetch
Baccharis salicifolia	mulefat
Bromus madritensis ssp. rubens*	red brome
Camissonia sp*	suncup
Cercocarpus betuloides	mountain mahogany
Chenopodium californicum	pigweed
	1.0
Croton californicus	California croton
Croton setiger	doveweed California cholla
Cylindropuntia californica Datura stramonium	
	jimsonweed scarlet larkspur
Delphinium cardinal Ehrendorferia chrysantha	golden eardrops
Encelia farinosa	brittlebush
Erigeron bonariensis	flax-leaved horseweed
Eriodictyon californicum	verba santa
Eriogonum fasciculatum	California buckwheat
Erodium sp.*	red-stemmed filaree
Eriastrum sapphirinum	sapphire woollystar
Eucalyptus camaldulensis*	red gum eucalyptus
Helianthus annuus	common sunflower
Hesperoyucca whipplei	chaparral yucca
1 7 11	1 2
Heterotheca grandiflora	telegraph weed
Hirschfeldia incana*	short-pod mustard scalebroom
Lepidospartum squamatum Nicotiana glauca*	tree tobacco
Opuntia littoralis	coastal pricklypear
Penstemon spectabilis	showy penstemon
Phacelia distans	common phacelia
Platanus racemose	Western sycamore
Populus fremontii	Fremont cottonwood
Rhamnus crocea	spiny red berry
Rhamnus ilicifolia	hollyleaf red berry
Rhus aromatica	basket bush
Ricinus communis*	castorbean
Salsola tragus*	Russian thistle
Salvia apiana	white sage
Salvia columbariae	chia sage
Sambucus nigra	Mexican elderberry
Schismus barbatus*	Mediterranean grass
Toxicodendron diversilobum	poison oak
Washingtonia robusta*	Mexican fan palm

^{*}Non-native/invasive



Table F-2: Wildlife Species

Scientific Name	Common Name
Aves	Birds
Accipiter cooperii	Cooper's hawk
Buteo jamaicensis	red-tailed hawk
Calypte anna	Anna's hummingbird
Calypte costae	Costa's hummingbird
Charadrius vociferus	killdeer
Corvus brachyrhynchos	American crow
Falco sparverius	American kestrel
Haemorhous mexicanus	house finch
Hirundo rustica	barn swallow
Melozone crissalis	California towhee
Mimus polyglottos	northern mockingbird
Petrochelidon pyrrhonota	American cliff swallow
Polioptila californica californica	California gnatcatcher
Psaltriparus minimus	bushtit
Sayornis nigricans	black phoebe
Stelgidopteryx serripennis	northern rough-winged swallow
Thryomanes bewickii	Bewick's wren
Toxostoma redivivum	California thrasher
Zenaida macroura	mourning dove
Reptilia	Reptiles
Coluber flagellum piceus	red racer
Sceloporus occidentalis longipes	Great Basin fence lizard
Uta stansburiana elegans	western side-blotched lizard
Mammalia	Mammals
Otospermophilus beecheyi	California ground squirrel
Sylvilagus audubonii	cottontail rabbit

Appendix C CULTURAL RECORDS SEARCH



June 2, 2016

Kari Cano Michael Baker International 3536 Concours Street, Suite 100 Ontario, California 91764

Subject: Cultural Resources Records Search for the San Sevaine Project,

Fontana and Rancho Cucamonga, San Bernardino County, California

(BCR Consulting Project No. MBI1607)

Dear Kari:

BCR Consulting LLC (BCR Consulting) was retained by Michael Baker International to complete a cultural resources records search for the San Sevaine Project in Fontana and Rancho Cucamonga, San Bernardino County, California. The purpose of this study was to identify prehistoric or historic-period resources within one mile of the project site.

Cultural Resources Records Search

BCR Consulting Principal Investigator/Archaeologist David Brunzell conducted the cultural resources records search at the South Central Coastal Information Center (SCCIC) at California State University, Fullerton on May 31, 2016. The records search included a review of all recorded historic and prehistoric archaeological sites, as well as recorded built environment resources within one mile of the project site. The research also reviewed known cultural resource reports completed in the vicinity.

The research revealed that 37 cultural resource studies have taken place resulting in nine cultural resources (36 historic-period, and one prehistoric) recorded within one mile of the project site. The project site has never been subject to a cultural resources assessment, and no cultural resources have been recorded within its boundaries. Aerial photos from the U.S. Department of Agriculture were also reviewed during the research. This research indicates that the project alignment between the southern terminus and Victoria Street was paved and channelized after 1980. This research has also indicated that the project alignment to the north of Victoria Street was channelized and paved between 1966 and 1980. The records search results are summarized in Table A.

Table A. Records Search Results (One-Mile Radius)

USGS 7.5 Min. Quad	Cultural Resources	Cultural Resource Reports*
Guasti (1981), Devore (1996), and Cucamonga Peak (1996), California	P-36-7661, 10296, 10297, 13027, 13746, 16446, 16489, 16490, 60257	SB-106-1501, 1506, 1532, 1582, 2041, 2043, 2413, 2527, 2621, 2795, 2796, 2851, 3050, 3455, 3456, 3468, 3585, 3774, 3777, 4145, 4206, 4216, 4367, 4409, 5734, 5997, 5999, 6000, 6060, 6174, 6327, 6787, 6986, 7310, 7312, 7401, 7869

Page 1
Michael Baker International
San Sevaine Project
Fontana and Rancho Cucamonga

Summary and Recommendations

The project site has not been subject to previous cultural resources assessment. Since the entire project site is paved, there is no potential to discover prehistoric cultural resources. However, although the southern portion of the project alignment (south of Victoria Street) was constructed after 1980, the portion north of Victoria Street was channelized between 1966 and 1980. As a result, the northern portion of the alignment may be historic in age (i.e. older than 45 years). If City records indicate that this portion of the project was constructed less than 45 years ago, no additional cultural resources work or monitoring will be recommended. However, if City records indicate that this portion of the project alignment is greater than 45 years old, it should be subject to recordation and evaluation by a cultural resource professional that meets the U.S. Secretary of the Interior Professional Qualification Standards for Archaeology. Furthermore, if any cultural resources are discovered during project activities, ground disturbance should stop and a qualified archaeologist should be contacted to record and evaluate the find.

If human remains are encountered during activities associated with the proposed project, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. The County Coroner must be notified of the find immediately. If the remains are determined to be prehistoric, the Coroner will notify the Native American Heritage Commission (NAHC), which will determine and notify a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 48 hours of notification by the NAHC.

Please contact me by phone at 909/525-7078 or e-mail at <u>david.brunzell@yahoo.com</u> with any questions or comments.

Sincerely,

David Brunzell, M.A./RPA

Principal Investigator/Archaeologist

O-Held

Appendix D HAZARDOUS MATERIALS MEMORANDUM





MEMORANDUM

To: Kari Cano

From: Kristen Bogue

Date: June 7, 2016

Project: San Sevaine Trail, Segment 2 – Hazardous Materials Analysis to Support

Environmental Documentation

This Technical Memorandum was prepared in an effort to preliminarily identify the potential existence of hazardous materials/wastes within the boundaries of the proposed San Sevaine Trail, Segment 2 (Project). This scope of work included a visual site inspection of the Project site, conducted on June 1, 2016, in concert with research of available federal, tribal, state, and local regulatory databases to verify if listed regulatory sites or hazardous wastes have been reported within or near the boundaries of the Project site.

<u>Project Location</u>: The Project site is located within the cities of Fontana and Rancho Cucamonga in southwestern San Bernardino County, California (Sections 25, 26, and 30, Township 1 North [T.1N], Range 6 West [R.6W], San Bernardino Base and Meridian [SBBM]). The Project limits are from the Pacific Electric Inland Empire Trail in the City of Fontana to Banyan Street in the City of Rancho Cucamonga. Of the total 1.25-mile Project alignment length, approximately 0.30 miles are within Fontana's city limits and approximately 0.95 miles are within Rancho Cucamonga's city limits.

Regulatory Database Searches

As part of this analysis, Michael Baker reviewed available database records maintained by the California Environmental Protect Agency (CalEPA) (Cortese Database), the State Water Resources Control Board (SWRCB) (GeoTracker Database), and the Department of Toxic Substances Control (DTSC) (EnviroStor Database). The following is a summary of the records searches conducted.

Cortese Database

Government Code Section 65962.5 requires the Department of Toxic Substances Control (DTSC) and the State Water Resources Control Board (SWRCB) to compile and update a regulatory sites listing (per the criteria of the Section). The State Department of Health Services is also required to compile and update, as appropriate, a list of all public drinking water wells that contain detectable levels of organic contaminants and that are subject to water analysis pursuant to Section 116395 of the Health and Safety Code. Section 65962.5 requires the local enforcement agency, as designated pursuant to Section 18051 of Title 14 of the California Code of Regulations (CCR), to compile, as appropriate, a list of all solid waste disposal facilities from which there is a known migration of hazardous waste.

The Project site is not listed pursuant to Government Code Section 65962.5.1

GeoTracker Database

GeoTracker was developed pursuant to a mandate by the California State Legislature to investigate the feasibility of establishing a statewide Geographic Information System (GIS) for leaking underground fuel tank (LUFT) sites. Michael Baker makes no claims as to the completeness or accuracy of GeoTracker; our review of GeoTracker's findings can only be as current as their listings and may not represent all known or potential hazardous waste or contaminated sites.

The Project site is not listed via the GeoTracker Database.² Further, no adjoining or adjacent sites of concern were noted within a one mile radius.

EnviroStor Database

Sites reported under the DTSC's Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites that require further investigation (based on current/historic uses or other known site information). The database includes the following site types: Federal Superfund sites (National Priorities List [NPL]); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites.

The Project site is not listed via the EnviroStor Database.³ Further, no adjoining or adjacent sites of concern were noted within a one mile radius.

Site Visit

Michael Baker performed a visual observation of readily accessible areas of the Project site and immediately adjoining properties on June 1, 2016. Access to the Project site was not available, Michael Baker viewed all areas of the Project site from public thoroughfares.

The Project site consists of the existing San Sevaine flood control channel. Specifically, the Project site is comprised of the flood control channel, paved access roads, and disturbed vegetation on both sides of the channel/access roads. Michael Baker did not observe any manholes, fill pipes, vent piles, fuel pumps, or any areas of abnormal staining during the June 1, 2016 visual site inspection. No evidence suggesting the current or past use of on-site underground storage tanks (USTs), aboveground storage tanks (ASTs), and/or manholes or hazardous material storage was noted within the boundaries of the Project site during the June 1, 2016 site visit. No evidence of spills, solid waste disposal, overhead powerlines, wells, pits/ponds/lagoons, or structures were noted on the Project site during the June 1, 2016 site visit. Michael Baker did not observe any evidence to suggest the release of hazardous materials within the boundaries of the Project site during the June 1, 2016 site visit.

Off-site properties observed during the June 1, 2016 site visit included the San Sevaine flood control channel to the north, vacant land, transportation uses (State Route 210 [SR-210] and

¹ California Environmental Protection Agency, Cortese Database, http://www.calepa.ca.gov/SiteCleanup/CorteseList/default.htm, accessed on June 6, 2016.

State Water Resources Control Board, GeoTracker Database, http://geotracker.waterboards.ca.gov/, accessed on June 6, 2016.

³ Department of Toxic Substances Control, EnviroStor Database, http://www.envirostor.dtsc.ca.gov/public/, accessed on June 6, 2016.

Interstation 15 [I-15]), and a self-storage facility to the east, I-15 to the south, and residential uses and vacant land to the west. Sewer manholes, water pumps and other water infrastructure, as well as dry utilities (street lights, etc.) were noted at off-site properties during the June 1, 2016 site visit. No chemical storage tanks or evidence of chemical storage tanks were noted at adjacent properties during the June 1, 2016 site visit. During a preliminary observation of surrounding properties on June 1, 2016, no visible or physical evidence was observed to suggest that a surface release of petroleum based material has recently occurred.

Conclusions Relative to CEQA

Routine Transport, Use, or Disposal of Hazardous Materials

Implementation of the proposed trail would not result in the routine transport, use, or disposal of hazardous materials during operations of the proposed Project. Limited amounts of some hazardous materials could be used in the short-term construction of the Project, including standard construction materials (e.g., paints and solvents), vehicle fuel, and other hazardous materials. The routine transportation, use, and disposal of these materials would be required to adhere to State and local standards and regulations for handling, storage, and disposal of hazardous substances. With compliance with the existing State and local procedures that are intended to minimize potential health risks associated with their use or the accidental release of such substances, impacts associated with the handling, storage, and transport of these hazardous materials during construction would be less than significant.

Reasonably Foreseeable Upset and Accident Conditions Involving the Release of Hazardous Materials

During Project construction, there is a possibility of accidental release of hazardous substances such as petroleum-based fuels or hydraulic fluid used for construction equipment. The level of risk associated with the accidental release of hazardous substances is not considered significant due to the small volume and low concentration of hazardous materials utilized during construction. The contractor would be required to use standard construction controls and safety procedures that would avoid and minimize the potential for accidental release of such substances into the environment. Standard construction practices would be observed such that any materials released are appropriately contained and remediated as required by local, State, and Federal law.

Further, based on the site visit conducted on June 1, 2016, and the regulatory databases reviewed as part of this Memorandum, the proposed grading activities are not anticipated to encounter contaminated soils or groundwater. No impacts are anticipated in this regard.

<u>Emit Hazardous Emissions or Handle Hazardous or Acutely Hazardous Materials, Substances,</u> or Waste Within 0.25 Mile of an Existing or Proposed School

The nearest school (Etiwanda High School) is located approximately 1,000 feet to the west of the Project site. However, construction activities and proposed operations of the trail are not anticipated to involve the handling of hazardous materials or hazardous emissions. Thus, no impacts are anticipated to result in this regard.

Associated with a Site Listed Under Government Code Section 65962.5

Based on the Cortese Database search conducted as part of this Memorandum, the Project site is not reported on a list maintained pursuant to Government Code Section 65962.5. No impacts would result in this regard.

Conclusion

Thus, based on the analysis presented in this Memorandum, implementation of the proposed Project would result in less than significant impacts pertaining to hazardous materials and no further mitigation is necessary.

Should you have any questions with respect to the review of the subject letter, please do not hesitate contact me at 949/855-5747 or kboque@mbakerintl.com.

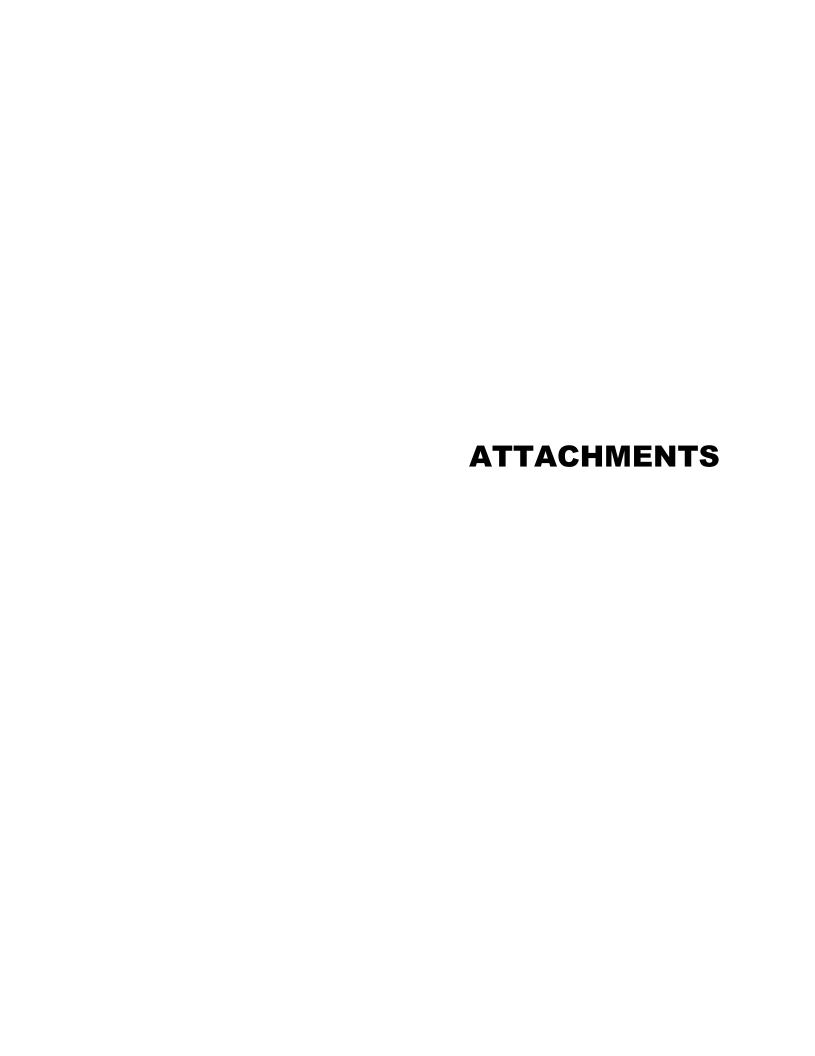
Sincerely,

Kristen Bogue

Environmental Professional Planning/Environmental Services

Attachments:

A. Regulatory Database Search Results





ATTACHMENT A Regulatory Database Search Results



REGION	FACILITY FACILITY NAME	AGENCY NAME	PLACE T	Y PLACE SUBTYPE	FACAGI# C	OF / PLACE ADDRESS	PLACE CITY
8	210419 Brine Facility Fontana-Closing	Aluman Inc	Facility		Indl Priv	1 N.E. of Santa Ana & Beach	Fontana
8	210419 Brine Facility Fontana-Closing	Aluman Inc	Facility		Indl Priv	1 N.E. of Santa Ana & Beach	Fontana
8	236468 Mid-Valley Landfill	San Bernardino Cnty Waste	Facility	Land fill	Soli Cou	1	Fontana
8	259198 Western Water Recycling Facility	Western Municipal Water Dist	Facility	Wastewater Treatment Facility	Mur Spe	1 I 215	Riverside
8	230195 Hettinga Ranch	Hettinga, Hein	Facility	Animal Feeding Facility	Agri Priv	1 15250 El Sobrante Road	Riverside
8	257610 SOIL RECYCLING, RIVERSIDE		Facility		Industrial	9800 BEAR AVENUE	RIVERSIDE
8	228451 GW CLEANUP-RIVERSIDE,FLIGHT RD	ORCO AVIATION	Facility		Indl Priv	1 6741 FLIGHT	RIVERSIDE
8	228446 GW CLEANUP-RIVERSIDE,12TH ST.	FMC CORPORATION	Facility		Indl Priv	1 3075 12TH	RIVERSIDE
8 8	,		,				



Cortese List: Section 65962.5(a)

Information Required From the Department of Toxic Substances Control (DTSC) Under Government Code Section 65962.5(a)

Section 65962.5(a)(1) requires that DTSC "shall compile and update as appropriate, but at least annually, and shall submit to the Secretary for Environmental Protection, a list of all the following:(1) [a]II hazardous waste facilities subject to corrective action pursuant to Section 25187.5 of the Health and Safety Code ("HSC")."

The hazardous waste facilities identified in HSC § 25187.5 are those where DTSC has taken or contracted for corrective action because a facility owner/operator has failed to comply with a date for taking corrective action in an order issued under HSC § 25187, or because DTSC determined that immediate corrective action was necessary to abate an imminent or substantial endangerment. This is a very small and specific subgroup of facilities and they are not separately posted on the DTSC or CalEPA's website.

The facilities listed below fall under this category:

- AAD Distribution & Dry Cleaning Inc. EPA ID CAD981397417 2306 E. 38th Street Vernon, CA 90058
- The Marquardt Co.
 CA ID CAD044696102
 16555 Saticoy Street
 Van Nuys, CA 91406

Section 65962.5(a)(2) requires that DTSC "shall compile and update as appropriate, but at least annually, and shall submit to the Secretary for Environmental Protection, a list of all the following: ... (2) [a]II land designated as hazardous waste property or border zone property pursuant to Article 11 (commencing with Section 25220) of Chapter 6.5 of Division 20 of the Health and Safety Code."

No facilities or lands are listed under this provision because DTSC has not designated any hazardous waste property or border zone property pursuant to the cited provisions.

Section 65962.5(a)(3) requires that DTSC "shall compile and update as appropriate, but at least annually, and shall submit to the Secretary for Environmental Protection, a list of all the following:(3) [a]II information received by the Department of Toxic Substances Control pursuant to Section 25242 of the Health and Safety Code on hazardous waste disposals on public land.

HSC § 25242(a) requires a city, county, or state agency that owns or leases land to notify DTSC if it "has probable cause to believe that a disposal of hazardous waste, which is not authorized pursuant to this chapter has occurred on, under or into the land which the city, county, or state agency owns or leases..."; DTSC then shall determine if there has been an unauthorized disposal of hazardous waste.

In practice, if a city, county or state agency contacts DTSC to provide such information, they also will have contacted or will be directed to contact DTSC's Emergency Response Duty Officer, who determines whether to authorize DTSC-funding for an emergency action to properly remove and dispose of the hazardous waste.

DTSC's Emergency Response program does not keep separate records of such reports that relate to city, county or state agency property.

In the future, DTSC will track any reports received from cities, counties, or state agencies of hazardous waste disposal on land owned or leased by a city, county or state agency, where hazardous waste was released into the environment, and provide the information to CalEPA for inclusion in this section of the Cortese list.

Section 65962.5(a)(4) requires that DTSC "shall compile and update as appropriate, but at least annually, and shall submit to the Secretary for Environmental Protection, a list of all the following:(4) [a]II sites listed pursuant to Section 25356 of the Health and Safety Code."

HSC § 25356(b)(1) requires "a listing of hazardous substance release sites selected for, and subject to, a response action under this chapter." HSC § 25356(b)(2) requires DTSC to "update the list of sites at least annually to reflect new information regarding previously listed sites or the addition of new sites requiring response action." The implementing regulations provide that sites may be listed pursuant to HSC § 25356 if (a) they are not owned by the Federal Government and (b) a release or threatened release of hazardous substances has been confirmed by on-site sampling. (California Code of Regulations, Title 22, Section 67400.1). DTSC's list of sites that meet those criteria as well as the criteria in HSC § 25356(c), is found in a report in DTSC's "Envirostor" database:

• Hazardous Waste and Substances site "Cortese" list

Sites where response actions have been completed and no operation and maintenance activities are required are not included on the list.

Section 65962.5(a)(5) requires that DTSC "shall compile and update as appropriate, but at least annually, and shall submit to the Secretary for Environmental Protection, a list of all the following:(5) [a]II sites included in the Abandoned Site Assessment Program."

DTSC had an abandoned site program in the 1980s. HSC § 25369, which was enacted in 1985, required an abandoned site survey in "rural unsurveyed counties." Sites identified in the abandoned site program were included in the "CalSites" database of known and potential hazardous substance release sites. After further investigation, many sites were removed from the "CalSites" database because there was no evidence that a release of hazardous substances occurred. Some time in the early 1990s, DTSC's activities under HSC § 25369, and the entire Abandoned Site Program, were concluded.

DTSC recently replaced the "CalSites" database with a new database of hazardous substance release sites, known as the "EnviroStor" database. The EnviroStor database does not indicate if a specific site was at one time included in the abandoned site program and does not have a category for sites that are considered abandoned. The CalSites database also did not include this information. Consequently, DTSC does not provide the information to CalEPA originally called for under section 65962.5(a)(5).

Background and History | Cortese List Home

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SITE / FACI ENVIROST(PROGRAM STATUS STATUS DA ADDRESS DESCRIPTION	CITY	ZIP COUNTY SITE CODE I	ATITUDE LONGITUDE
ALAMEDA 1970005 FEDERAL S'ACTIVE - L/ ####### 2,616 ACRES IN ALAMEDA, CALIFORNIA	ALAMEDA	94501 ALAMEDA 201209, 2	37.78611 -122.31
FORMER J. 1240036 STATE RESIACTIVE ######## 2201 CLEMENT AVENUE	ALAMEDA	94501 ALAMEDA 201525, 2	37.77372 -122.242
AREA 3 (SA 60001335 FEDERAL S'ACTIVE ######## COVERS CITY OF SAN GABRIEL, PORTIONS OF	ALHAMBRA	91778 LOS ANGELES 301178	34.09859 -118.117
CLASSIC PL 71003472 STATE RESIACTIVE ######## 2985 E. MIRALOMA AVENUE #U	ANAHEIM	92806 ORANGE 401657	33.85781 -117.865
DUCKETT F 60002000 STATE RESIACTIVE ######## 2811 E. LINCOLN AVENUE	ANAHEIM	92806 ORANGE 401668	33.83722 -117.871
FORT MCD 71000007 STATE RESIACTIVE ######## 4 MILES NORTH OF SAN FRANCISCO	ANGEL ISLAND	93933 MARIN 201263	37.8625 -122.423
NCCOSC M 19970010 STATE RESIACTIVE 7/1/1994 STATE HWY 39, 4.5 MI NORTHEAST OF AZUSA	A ANGELES N FOREST	91702 LOS ANGELES 400318	34.18188 -117.872
FULTON St 7440009 STATE RESIACTIVE ######## 307 FULTON SHIPYARD ROAD	ANTIOCH	94509 CONTRA COSTA 201495	38.01659 -121.801
GBF / PITT! 7490038 FEDERAL S'ACTIVE - L/ 1/1/1988 SOMERVILLE RD & JAMES DONLON BLVD	ANTIOCH	94509 CONTRA COSTA 200041	37.98815 -121.847
MCNAMAF 12240115 STATE RESICERTIFIED 3/9/1998 1619 GLENDALE DRIVE	ARCATA	95521 HUMBOLDT 200066	40.90077 -124.019
BROWN AT 15280011 FEDERAL STACTIVE 3/1/1985 600 S DERBY ST	ARVIN	93203 KERN 100025	35.20315 -118.823
CALTRANS 19990002 STATE RESICERTIFIED 4/9/1996 NE OF INTRSECTN OF WESTERN AVE & 120 S	Γ ATHENS	90047 LOS ANGELES 300202	33.92366 -118.309
CASTLE AFI 80001230 FEDERAL S'ACTIVE ####### 5 MI NW OF MERCED	ATWATER	95342 MERCED 101914	37.38665 -120.586
CASTLE AIF 24970001 FEDERAL S CERTIFIED ######## 2,777 ACRES; 5 MI NW OF MERCED, CA	ATWATER	95342 MERCED 100029	37.36278 -120.567
ASSURED T 15420001 STATE RESIACTIVE ####### 3228 GIBSON ST	BAKERSFIELD	93308 KERN 100562	35.39045 -119.052
AVIATION 80000981 MILITARY FACTIVE ######## ADJACENT TO FORMER MOHAWK REFINERY	BAKERSFIELD		35.37609 -119.065
BENHAM # 15280253 STATE RESIACTIVE ######## 340 DANIELS LN	BAKERSFIELD		35.34933 -118.998
ENVIRONN 15490019 STATE RESIACTIVE 7/1/1994 ROUND MOUNTAIN ROAD	BAKERSFIELD	93301 KERN 100054	35.46213 -118.899
K & D SALV 15500001 STATE RESIACTIVE ######## 600 SOUTH UNION AVENUE	BAKERSFIELD	93307 KERN 101086	35.34895 -119.002
SAN JOAQI 15340023 STATE RESIACTIVE 9/1/2010 3930 GILMORE AVENUE	BAKERSFIELD		35.3897 -119.052
BALDWIN I 60001336 FEDERAL S'ACTIVE ######## COVERS PORTIONS OF CITIES OF AZUSA, IRW	BALDWIN PARK	·	34.08679 -117.96
BARSTOW 36970001 FEDERAL SIACTIVE 5/1/1986 5,688 ACRES; MIDDLE OF THE MOJAVE DESE	RBARSTOW	92311 SAN BERNARDINC 400092	34.87333 -116.953
MARINE C(60001632 STATE RESIBACKLOG 9/1/2015 MIDDLE OF THE MOJAVE DESERT	BARSTOW	92311 SAN BERNARDINC 401512	34.925 -117.68
CHEMICAL 7280017 STATE RESICERTIFIED ######## 600 NICHOLS ROAD	BAY POINT	94565 CONTRA COSTA 200019	38.04266 -121.989
BAYWOOD 71000008 STATE RESIACTIVE ######## 13 MI NW OF SAN LUIS OBISPO	BAYWOOD PARK	93402 SAN LUIS OBISPO 101047	35.30611 -120.873
BEALE AFB 58940001 STATE RESIACTIVE 5/1/1986 22,944 ACRES; 10MI EA OF MARYSVILLE, CA	BEALE AFB	95903 YUBA 100018	39.12621 -121.435
LOCKHEED 33370039 STATE RESIACTIVE ####### HIGHLAND SPRINGS ROAD	BEAUMONT	92223 RIVERSIDE 400200	33.8638 -116.933
LOCKHEED 33370038 STATE RESIACTIVE ######## JACK RABBIT TRAIL	BEAUMONT	92223 RIVERSIDE 400261	33.93 -117.031
FORMER D 60001235 STATE RESIACTIVE ######## 4032 GAGE AVENUE	BELL	90201 LOS ANGELES 301486	33.97893 -118.195
CHROME C 19350473 STATE RESIACTIVE ######## 6845 FLORENCE PL	BELL GARDENS	90201 LOS ANGELES 300736	33.96572 -118.142
J&S CHRON 19340358 STATE RESIACTIVE ######## 6863 FLORENCE PL	BELL GARDENS	90201 LOS ANGELES 300255, 3	33.96565 -118.141
BENICIA AF 60001960 STATE RESIACTIVE ######## 750 JACKSON STREET	BENICIA	94510 SOLANO 201993	38.04709 -122.142
BENICIA AF 60001959 STATE RESIACTIVE ######## 946 TYLER ROAD	BENICIA	94510 SOLANO 201994	38.04582 -122.14
BODEGA H 80001096 MILITARY FACTIVE ########	BOLINAS	SONOMA 201818	38.30167 -123.058
BRAWLEY 13750002 STATE RESIACTIVE 8/6/2014 556 E STREET	BRAWLEY	92227 IMPERIAL 401171	32.97948 -115.533
PUREGRO 13070097 STATE RESIACTIVE ######## 1025 RIVER DRIVE	BRAWLEY	92227 IMPERIAL 401121	32.98814 -115.526
SOUTHERN 41490037 STATE RESIACTIVE - L/ ######## GENEVA AVENUE AND BAYSHORE BOULEVAR	IBRISBANE	94005 SAN MATEO 200093	37.70592 -122.404
BUENA PAI 60001268 STATE RESIACTIVE - LF 3/9/2010 6522 STANTON AVENUE	BUENA PARK	90621 ORANGE 401478	33.8658 -117.994
NEW FASH 60001918 STATE RESIACTIVE ######## 4548 BEACH BOULEVARD	BUENA PARK	90621 ORANGE 401649	33.8953 -117.987
FORMER D 60000535 STATE RESIACTIVE ####### 1102 WEST ISABEL STREET	BURBANK	91506 LOS ANGELES 301328	34.18211 -118.323
CAMP LOC 37970030 STATE RESIACTIVE 6/4/2015 CAMPO	CAMPO	91906 SAN DIEGO 400767	32.60834 -116.467
LUBRICATI: 19290153 STATE RESIACTIVE ####### 12500 LANG STATION ROAD	CANYON COUNTRY	91350 LOS ANGELES 300087	34.4323 -118.37
CARMEL CI 60002209 STATE RESIACTIVE ####### SWC OF JUNIPERO STREET AND 3RD AVENUE	CARMEL	93921 MONTEREY 202043	36.55934 -121.92
ALCO PACI 19340753 STATE RESICERTIFIED 7/2/2013 16914 SOUTH BROADWAY	CARSON	90248 LOS ANGELES 300353, 3	33.87815 -118.278

CAL COMP 19490019 STATE RESIACTIVE	####### 20400 MAIN ST	CARSON	90745 LOS ANGELES	400721.4	33.8426	-118.272
GOLDEN E, 19290167 STATE RESIACTIVE - L/		CARSON	90745 LOS ANGELES	400072		-118.285
MOEN FO/ 19300002 STATE RESIBACKLOG	####### 16627 AVALON BLVD	CARSON	90746 LOS ANGELES	300256	33.8802	-118.266
MONSANT 19281200 STATE RESIACTIVE	####### 2100 EAST 223RD STREET	CARSON	90810 LOS ANGELES	400266	33.82292	-118.238
STAUFFER 19280083 STATE RESIACTIVE - L/	####### 2112 EAST 223RD STREET	CARSON	90745 LOS ANGELES	400264	33.82323	-118.236
VICTORIA (19490191 STATE RESIACTIVE	6/9/2006 340 EAST 192ND STREET	CARSON	90746 LOS ANGELES	400579	33.85287	-118.272
CASMALIA 42490025 FEDERAL S'ACTIVE	5/8/1995 3300 NTU ROAD	CASMALIA	93429 SANTA BARBARA	300208	34.87588	-120.553
MARSHALL 60000250 STATE RESIACTIVE	######## 20457 REDWOOD ROAD	CASTRO VALLEY	94546 ALAMEDA	201654	37.6969	-122.074
CHICO - SK 4880002 STATE RESIACTIVE	####### HAGEN LANE/SKYWAY AVENUE	CHICO	95928 BUTTE	101681	39.70665	-121.8
	######## CHICO AREA GROUNDWATER	CHICO	95926 BUTTE	100035	39.73518	-121.835
CHICO GRC 4990002 STATE RESIACTIVE - L/	####### CHICO AREA GROUNDWATER	CHICO	95926 BUTTE	100504	39.73333	-121.848
CHICO MU 4450006 STATE RESIACTIVE - L/	1/1/1985 651 AND 681 LIBERATOR STREET	CHICO	95926 BUTTE	100036, 1	39.79508	-121.848
CHICO SCR 60000800 STATE RESIACTIVE	####### 878 EAST 20TH STREET	CHICO	95928 BUTTE	101937	39.72485	-121.817
ESPLANAD 4720001 STATE RESIACTIVE	2/7/2011 164 E 2ND AVE	CHICO	95926 BUTTE	100263	39.73946	-121.846
FIRST AVEN 4720002 STATE RESIACTIVE	####### 1082 EAST 1ST AVENUE	CHICO	95927 BUTTE		39.74604	
	####### 660 MANGROVE AVE	CHICO	95926 BUTTE	100185	39.735	-121.835
FLOWSERV 60001983 STATE RESIACTIVE	3/4/2014 844 BROADWAY STREET, APN 004-285-002-0	(CHICO	95928 BUTTE	102237	39.72509	-121.836
LOUISIANA 4240002 STATE RESICERTIFIED	####### WEST 16TH STREET	CHICO	95926 BUTTE	100186	39.71579	-121.832
NORGE VIL 4720004 STATE RESICERTIFIED	####### 254 EAST FIRST STREET	CHICO	95926 BUTTE	101168	39.73158	-121.84
NORTH VA 4720005 STATE RESIACTIVE	7/1/1995 801 EAST AVENUE	CHICO	95926 BUTTE	100506	39.75812	-121.846
VICTOR INI 4360003 STATE RESIACTIVE - L/	####### 365 E 20TH ST	CHICO	95928 BUTTE	100178	39.72091	-121.821
AVALON PI 60001560 STATE RESIACTIVE	####### 200 FALLS CANYON ROAD	CITY OF AVALON	90704 LOS ANGELES	404868	33.33852	-118.333
PUENTE V/ 60001338 FEDERAL S'ACTIVE	####### COVERS MOST OF CITY OF INDUSTRY, PORTIC	CITY OF INDUSTRY	91744 LOS ANGELES	301404, 3	34.02933	-117.967
FORT ORD 80001207 FEDERAL SIACTIVE - L/	####### INTERSECTION OF HWY 1 AND 8TH STREET	CITY OF MARINA	93933 MONTEREY	201772	36.65248	-121.823
SULPHUR E 17100001 FEDERAL S'ACTIVE	1/1/1984 SULPHUR BANK ROAD	CLEARLAKE	95422 LAKE	100142	39.00389	-122.665
MOUNT O' 71000033 STATE RESIACTIVE	####### APPROXIMATELY 6 MILES NORTHEAST OF CLO	CCLOVIS	93911 FRESNO	101191, 1	36.88951	-119.628
FOSTER-G/ 33280137 STATE RESICERTIFIED	####### 1577 FIRST STREET	COACHELLA	92236 RIVERSIDE	400305	33.68323	-116.18
ATLAS ASB 10320044 FEDERAL SIACTIVE - LA	1/1/1983 20 MILES NW OF COALINGA-LOS GATOS CK R	I COALINGA	93210 FRESNO	100161, 1	36.32119	-120.591
CITY OF CC 10330041 FEDERAL S CERTIFIED	####### AREA SE OF LUCILLE AVENUE & HWY 198	COALINGA	93210 FRESNO	100289, 1	36.12775	-120.37
COALINGA 10140003 FEDERAL S CERTIFIED	####### PINE CANYON, 15 MILES NW OF COALINGA	COALINGA	93210 FRESNO	100043	36.30963	-120.529
CAMEO 19390043 STATE RESIACTIVE	####### 6904 EAST SLAUSON AVENUE	COMMERCE	90040 LOS ANGELES	300546	33.98021	-118.141
NEWCROW 60000714 STATE RESIACTIVE	####### 6141 TO 6241 RANDOLPH STREET	COMMERCE	90040 LOS ANGELES	301321	33.97853	-118.153
SOUTHLAN 19290003 STATE RESICERTIFIED	####### 5619-5621 RANDOLPH STREET	COMMERCE	90040 LOS ANGELES	300148	33.97995	-118.165
WESTERN 19330383 STATE RESIACTIVE	####### 4530 E PACIFIC WAY	COMMERCE	90040 LOS ANGELES	300590, 3	34.00564	-118.177
CONCORD 7970005 FEDERAL S ACTIVE	####### 12,922 ACRES; 30 MI NE OF SAN FRANCISCO	CONCORD	94520 CONTRA COSTA	201776	38.02111	-122.026
MILITARY (7970004 FEDERAL S ACTIVE	####### PORT CHICAGO HIGHWAY	CONCORD	94520 CONTRA COSTA	200022	38.0535	-122.02
PUREGRO- 16070076 STATE RESIACTIVE	####### 6991 NEVADA AVENUE	CORCORAN	93212 KINGS	100274	36.137	-119.581
THOMAS R 33290115 STATE RESICERTIFIED	####### S OF PALISADES DR, W OF SERFAS CLUB DR	CORONA	91720 RIVERSIDE	400158	33.88022	-117.614
CLA-VAL F/ 60001550 STATE RESIACTIVE	####### 1701 PLACENTIA AVENUE	COSTA MESA	92627 ORANGE	401579	33.63706	-117.933
COSTA ME 30970004 STATE RESIACTIVE	####### S OF PRESIDIO DR & WEST OF NEWPORT BLV	I COSTA MESA	92626 ORANGE	400498	33.67167	-117.889
COSTA ME 60001245 STATE RESIACTIVE	6/1/2016 AREA BOUNDED BY MONROVIA AVENUE, PLA	A COSTA MESA	92627 ORANGE	401385	33.63581	-117.934
MAURER N 60001549 STATE RESIACTIVE	8/4/2011 873 WEST 17TH STREET	COSTA MESA	92627 ORANGE	401578	33.63559	-117.935
PRECISION 60001612 STATE RESIACTIVE	####### 865 AND 869 WEST 17TH STREET	COSTA MESA	92627 ORANGE	401409	33.63608	-117.935
SOUTHERN 60001509 STATE RESIACTIVE	1/5/2012 1680 MONROVIA AVENUE	COSTA MESA	92627 ORANGE	401558	33.6354	-117.936
DEL NORTE 8420001 FEDERAL S'CERTIFIED	####### 2650 W WASHINGTON BLVD	CRESCENT CITY	95531 DEL NORTE	200025	41.7737	-124.232

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CROWS LA 50970001 STATE RESIACTIVE		1.5 MI NW OF CROWS LANDING; (T6S R8E)	CROWS LANDING	95313 STANISLAUS	,	37.40722	
FORMER A 19340792 STATE RESIACTIVE		5977 W. WASHINGTON BLVD.	CULVER CITY	90232 LOS ANGELES		34.03211	
DELIA'S CLI 60000349 STATE RESIACTIVE		7335 BOLINGER ROAD	CUPERTINO	95014 SANTA CLARA		37.31257	
MIDWAY V 41650007 STATE RESICERTIFIED			DALY CITY	94014 SAN MATEO		37.70212	
PG&E - MA 41360100 STATE RESICERTIFIED			DALY CITY	94014 SAN MATEO	•	37.70481	
PG&E - MA 41360093 STATE RESICERTIFIED			DALY CITY	94014 SAN MATEO		37.70287	-122.41
FRONTIER 57070001 FEDERAL S'ACTIVE - LA	4/1/1985	SECOND STREET/BTWN PENA & MACE BLVD.		95616 YOLO		38.55251	
LAB FOR EI 48990004 FEDERAL S'ACTIVE - LA	2/7/1995	U.C., DAVIS (ITEH) - OLD DAVIS ROAD	DAVIS	95616 SOLANO	100424, 1	38.51928	-121.757
H S MANN 10330038 STATE RESIACTIVE - LA	1/1/1984	5404 SOUTH DEL REY AVENUE	DEL REY	93616 FRESNO	100101, 1	36.65747	-119.59
DELANO PI 60001327 STATE RESIACTIVE	8/4/2010	MAIN STREET AND 10TH AVENUE	DELANO	93215 KERN	102044	35.76911	-119.246
FORMER N 60002270 STATE RESIACTIVE	########	811 11TH AVENUE	DELANO	93215 KERN	102277	0	0
OAK LANE 60002268 STATE RESIACTIVE	########	910 MAIN STREET	DELANO	93215 KERN	102275	0	0
OASIS CLE/ 60002269 STATE RESIACTIVE	########	920 MAIN STREET	DELANO	93215 KERN	102276	0	0
SO CAL GA 54830001 STATE RESIACTIVE	5/1/1986	216 S O ST	DINUBA	93618 TULARE	100050	36.53752	-119.392
DIXON NA\ 48970003 STATE RESIACTIVE	########	7200 RADIO STATION ROAD	DIXON	95620 SOLANO	100278	38.37417	-121.774
CENTRAL V 24280039 STATE RESIACTIVE	#######	7657 AZUSA AVE	DOS PALOS	93620 MERCED	101085	37.04805	-120.63
DRY CANY(80000411 STATE RESIACTIVE	7/1/2012	53 MILES NORTHWEST OF THE CITY OF VENT	DRY CANYON	93222 VENTURA	301338	34.75	-119.242
PARKS AIR 80000158 STATE RESIACTIVE	#######		DUBLIN	ALAMEDA		37.70306	-121.892
PARKS RES 1970012 STATE RESIACTIVE - LA	4/1/1994	BLDG. 790, 5TH STREET	DUBLIN	94568 ALAMEDA	201104, 2	37.70917	-121.9
J R SIMPLC 15070030 STATE RESIACTIVE - LA	5/1/1986	430 PEPPER DRIVE	EDISON	93220 KERN	100133	35.35148	-118.878
EDWARDS 15970001 FEDERAL SIACTIVE - LA	5/1/1986	470 SQ MI; 60 MI NE OF LOS ANGELES, CA	EDWARDS	93523 KERN	100052	34.90604	-117.883
CASPIAN IN 13280019 STATE RESICERTIFIED	#######	287 WEST ATEN ROAD	EL CENTRO	92243 IMPERIAL	400201, 4	32.82179	-115.56
NAVAL AIR 13970001 STATE RESIACTIVE	1/1/1995	OFF OLD HWY 80, 7 MILES W OF EL CENTRO	EL CENTRO	92243 IMPERIAL	400054	32.875	-115.875
MACDONA 60000506 STATE RESIBACKLOG	6/6/2008	SAN PABLO WALL 45TH PLUME	EL CERRITO AND RICHM	94804 CONTRA COSTA	201678	37.92969	-122.325
AEROJET G 60000742 STATE RESIACTIVE	#######	9100 FLAIR DRIVE	EL MONTE	91731 LOS ANGELES	301377	34.0715	-118.069
EL MONTE 60001337 FEDERAL S'ACTIVE	#######	COVERS PORTIONS OF CITIES OF EL MONTE, F	REL MONTE	91732 LOS ANGELES	301369, 3	34.0801	-118.041
HYTONE CI 60000629 STATE RESIACTIVE	5/1/2007	2702 MOUNTAIN VIEW ROAD	EL MONTE	91732 LOS ANGELES	301319	34.05952	-118.025
SAN GABRI 19990006 FEDERAL S'ACTIVE	#######	10-20 MI E OF L.A. ON HWY 10 IN AZUSA	EL MONTE	91732 LOS ANGELES	300132, 3	34.0724	-118.033
WICKES FC 48240001 STATE RESIACTIVE - LA	#######	INTERSECTION OF HOLDENER & A STREETS	ELMIRA	95625 SOLANO	100164	38.35235	-121.907
IKEA (FORM 1440005 STATE RESICERTIFIED	#######	4300 EASTSHORE HIGHWAY	EMERYVILLE	94608 ALAMEDA	200312, 2	37.8295	-122.292
MYERS DRI 1340110 STATE RESICERTIFIED	#######	4500 SHELLMOUND STREET	EMERYVILLE	94608 ALAMEDA	200144	37.83301	-122.293
SHERWIN \ 60000189 STATE RESICERTIFIED	#######	1450 SHERWIN AVENUE	EMERYVILLE	94608 ALAMEDA	200956, 2	37.83295	-122.29
CHATHAM 37490029 STATE RESIACTIVE	#######	2257 BERNARDO AVE	ESCONDIDO	92029 SAN DIEGO	400029	33.09303	-117.089
FAIR ANSE 60001218 STATE RESIACTIVE	#######	709 & 711 CENTER BOULEVARD	FAIRFAX	94930 MARIN	201866	37.98578	-122.584
SOUTHERN 48400001 STATE RESICERTIFIED	#######	END OF CHADBORNE RD, SUISUN MARSH	FAIRFIELD	94585 SOLANO	200444	38.17333	-122.079
TRAVIS AFI 80000617 MILITARY FACTIVE	#######		FAIRFIELD	SOLANO	FUDS MAF	38.27648	-122.002
FALLBROO 37970003 STATE RESIACTIVE	9/1/1995	14 SQ MI; 53 MI NORTH OF SAN DIEGO, CA	FALLBROOK	92028 SAN DIEGO	400270	33.38139	-117.257
PACIFIC CC 56130038 FEDERAL SIACTIVE	#######	67 EAST TELEGRAPH ROAD	FILLMORE	93015 VENTURA	300156	34.40436	-118.905
TRI-AIR, IN 10070021 STATE RESIACTIVE - L/	5/1/1986	915 TENTH STREET	FIREBAUGH	93622 FRESNO	100149, 1	36.85669	-120.464
BRITZ FERT 10280077 STATE RESICERTIFIED	#######	21817 SOUTH COALINGA ROAD	FIVE POINTS	93624 FRESNO	100024	36.41972	-120.121
POND MIN 60001301 STATE RESIBACKLOG	5/8/2012	NEAR 6501 PATENT ROAD (SITE OF FORMER I	FORESTHILL	95613 PLACER	102008	39.00113	-120.847
CITY OF FC 60002118 STATE RESIACTIVE	#######	STATE HIGHWAY 1	FORT BRAGG	95437 MENDOCINO	900279	39.44332	-123.811
GEORGIA-F 23240008 STATE RESIACTIVE - L/	8/1/2006	90 WEST REDWOOD AVENUE	FORT BRAGG	95437 MENDOCINO	200402	39.44332	-123.811
FORT IRWI 36970003 STATE RESIACTIVE		36313 ACRES; 36 MI EAST OF BARSTOW, CA	FORT IRWIN	92310 SAN BERNARDINC	400063		-116.625
FORT ORD 80001196 FEDERAL S'ACTIVE		NORTHEAST SIDE OF FORMER FORT ORD BAS		93941 MONTEREY	201648		-121.731

FORT ORD 80001198 FEDERAL STACTIVE - L/	3/2/2007 3500 ACRES OF THE FORMER FORT ORD; 5 M	LEORT ORD	93941 MONTEREY	201729 2	36.63604	-121 783
	5/1/1986 28,016 ACRES; 5 MILES N OF MONTEREY, CA		93941 MONTEREY	•	36.62951	
•	######## 1053 NORTHWESTERN AVE	FORTUNA	95540 HUMBOLDT	,	40.51466	
	####### 2940 SOUTH ELM AVENUE	FRESNO	93706 FRESNO		36.69437	
	1/1/1985 2501 SOUTH SUNLAND AVENUE	FRESNO	93725 FRESNO		36.71261	-119.77
	######## 3090 E CHURCH AVE	FRESNO	93721 FRESNO		36.71201	
		FRESNO	93727 FRESNO	101303		-119.773
	1/1/1990 MCKINLEY AND CLOVIS AVENUES	FRESNO		-	36.70389	
	1/1/1989 SW CORNER OF JENSEN & WEST AVENUES		93706 FRESNO	100246		
	4/6/2015	FRESNO	FRESNO	100100	36.16167	
PINEDALE 10990001 STATE RESIBACKLOG		FRESNO	93650 FRESNO		36.83972	
	######## 2376 S. RAILROAD AVENUE	FRESNO	93721 FRESNO		36.71498	
	######## NORTH OF CHURCH AVENUE AT SOUTH EAST		93721 FRESNO	-	36.7185	
T H AGRICI 10280334 FEDERAL S CERTIFIED		FRESNO	93727 FRESNO		36.76416	-119.66
	####### 2510 SOUTH EAST AVENUE	FRESNO	93717 FRESNO		36.70974	
	####### 2494 SOUTH RAILROAD AVENUE, P.O. BOX 16		93707 FRESNO	•	36.70779	
	####### 350 SOUTH RAYMOND AVENUE	FULLERTON	92831 ORANGE		33.86775	
MCCOLL 30290001 FEDERAL S CERTIFIED	####### ROSECRANS & SUNNY RIDGE	FULLERTON	92633 ORANGE	,	33.89513	
ORANGE C 71002520 STATE RESIACTIVE	####### 1711 E. KIMBERLY AVENUE	FULLERTON	92831 ORANGE	401605, 5	33.86319	-117.897
PCA META 71002360 STATE RESIACTIVE	####### 1726 E. ROSSLYNN AVENUE	FULLERTON	92831 ORANGE	102224, 4	33.86398	-117.897
GARDENA 19490135 STATE RESIACTIVE	####### 1450 WEST ARTESIA BOULEVARD (AT NORMA	A GARDENA	90247 LOS ANGELES	300067, 4	33.87235	-118.3
INDUSTRIA 60001937 STATE RESIACTIVE	####### 17109 SOUTH MAIN STREET	GARDENA	90248 LOS ANGELES	301601	33.87624	-118.277
GILROY - N 43490064 STATE RESIBACKLOG	9/6/1991 MONTEREY/6TH/OLD GILROY	GILROY	95020 SANTA CLARA		37.00682	-121.568
PALACE CL 60002013 STATE RESIACTIVE	6/2/2014 201 SOUTH GLENDALE AVENUE	GLENDALE	91205 LOS ANGELES	301655-00	34.14431	-118.249
SAN FERN/ 19990012 FEDERAL SIACTIVE	1/1/1984 CRYSTAL SPRINGS WELLFIELD AREA	GLENDALE	91209 LOS ANGELES	300127, 3	34.1575	-118.285
GOFFS CPS 80000412 STATE RESIACTIVE	####### 35 MILES WEST OF NEEDLES	GOFFS	92363 SAN BERNARDING	401352	34.925	-115.063
SHELL- FOF 42290014 STATE RESIACTIVE - L/	####### 14730 HIGHWAY 101	GOLETA	93117 SANTA BARBARA	300138	34.47653	-120.135
GOSHEN C. 60002004 STATE RESIACTIVE	5/5/2014 BETTY DRIVE	GOSHEN	93227 TULARE	102240	36.35571	-119.423
EMPIRE MI 29100003 STATE RESIACTIVE	####### 10791 E EMPIRE ST	GRASS VALLEY	95945 NEVADA	100235	39.20776	-121.043
ARMY REC 80000765 MILITARY FACTIVE	4/8/2015	GROVER CITY	SAN LUIS OBISPO	900196	35.12944	-120.63
HALF MOC 80000398 MILITARY FACTIVE	4/6/2015 WAVECREST ROAD	HALF MOON BAY	94019 SAN MATEO		37.44719	-122.433
HAYWARD 1970009 STATE RESIACTIVE	####### 1525 WEST WINTON AVENUE	HAYWARD	94545 ALAMEDA	200588	37.65479	-122.122
HAYWARD 1970008 STATE RESIACTIVE	####### 20301 SKYWEST DR	HAYWARD	94541 ALAMEDA	200635, 9	37.66279	-122.12
HERCULES 7280156 STATE RESICERTIFIED	####### CORNER OF SAN PABLO & SYCAMORE AVENU	HERCULES	94547 CONTRA COSTA	-	38.01341	-122.28
HERCULES 7280016 STATE RESICERTIFIED	6/9/1997 560 RAILROAD AVENUE	HERCULES	94547 CONTRA COSTA	200045. 2	38.02071	-122.289
SIERRA ARI 18940001 STATE RESIACTIVE - LA	• •	HERLONG	96113 LASSEN		40.14556	
SIERRA ARI 18940002 STATE RESIACTIVE - LA	• •	HERLONG	96113 LASSEN		40.26528	
PG&E HOL 35490002 STATE RESIBACKLOG	• •	HOLLISTER	95023 SAN BENITO			-121.364
	1/1/1984 21641 MAGNOLIA STREET	HUNTINGTON BEACH	92646 ORANGE	400007.4	33.64776	
	####### 2007 LAURA AVENUE	HUNTINGTON PARK	90255 LOS ANGELES		33.98845	
	2/3/2016 1/2 MILE NORTH OF U.S. & MEXICO BORDER		92154 SAN DIEGO		32.56667	
	######## OFF ROUTE 75 BORDERING THE LANDING FIE		92032 SAN DIEGO		32.56611	
	9/1/2015 APPROXIMATELY 10 MILES EAST OF CA HWY		93562 INYO	-	36.70694	-117.113
	5/3/2011 KERN COUNTY	INYOKERN	93517 KERN		35.66944	
	######## 6555 JACKSON VALLEY ROAD	IONE	95640 AMADOR		38.30763	
	5/1/1986 4,741 ACRES; 9MI NE OF NEWPORT BEACH, C	-	92709 ORANGE		33.68306	
LE TORO IV 30370003 FEDERAL 3 ACTIVE - LF	STATES THE MENT OF THE OF THE VETOR I BEACH, C	# IIA V (INL	J2703 UNANGE	400033	33.00300	-11/./34

ALLEN RAN 70000030 STATE RESIACTIVE ######## APPROXIMATELY ONE HALF MILE WEST OF A	LIVCKSON	95968 AMADOR	101767	38.38126	-120 914
ARGONAU 3100002 STATE RESIACTIVE 2/5/1987 ARGONAUT LANE	JACKSON	95642 AMADOR		38.35771	
UCSD (CAN 37970031 STATE RESIBACKLOG ######## 12 MILES NORTH OF SAN DIEGO	LA JOLLA	92103 SAN DIEGO		32.89167	
LAKE CHAE 80000783 STATE RESIACTIVE ######## 20 MILES SOUTHEAST OF ALAMEDA @ N37.4		94546 ALAMEDA		37.75444	
DEFENSE C 39970002 FEDERAL S'ACTIVE 5/1/1986 60 MI EA OF SAN FRANCISCO, CA	LATHROP	95331 SAN JOAQUIN	100131		-122.073
· · · · · · · · · · · · · · · · · · ·	_			36.25617	
LEMOORE 16970001 STATE RESIACTIVE 1/1/1983 39,823 ACRES; 35 MI SOUTH OF FRESNO, CA		93245 KINGS	100087		
NAS LEMO 80000645 MILITARY FACTIVE 4/6/2015 SOUTH SIDE OF ROUTE 198	LEMOORE	KINGS	200057	36.25432	
LAWRENCE 1730095 FEDERAL S'ACTIVE 5/1/1986 7000 EAST AVENUE	LIVERMORE	94550 ALAMEDA		37.68711	
VANDENBI 42970003 STATE RESIACTIVE 5/1/1986 98400 ACRES;55MI NW OF SANTA BARBARA,		93437 SANTA BARBARA		34.71722	
LONG BEAI 19970011 STATE RESIACTIVE - L/ ####### OFF OCEAN BLVD & NAVY WAY	LONG BEACH	90822 LOS ANGELES	•	33.75833	
HILLVIEW - 43490059 STATE RESIBACKLOG ######## BTW HILLVIEW; ELEANOR AVE&SAN ANTONIC		94022 SANTA CLARA		37.3796	
AMTRAK R 19400012 STATE RESIACTIVE ######## 2435 E. WASHINGTON BLVD.	LOS ANGELES	90021 LOS ANGELES		34.01916	
CALTRANS 19990003 STATE RESICERTIFIED ######## I-5 FWY BTW NORMANDIE BLV & IMPERIAL F		90047 LOS ANGELES		33.92889	-118.3
CHARLES C 19281216 STATE RESIACTIVE 7/2/2001 8325 HINDRY AVENUE	LOS ANGELES	90045 LOS ANGELES		33.96278	
DAVIS CHE 19281215 STATE RESIACTIVE 9/6/2000 1550 NORTH BONNIE BEACH PLACE	LOS ANGELES	90063 LOS ANGELES		34.05918	
DEL AMO F 19300230 FEDERAL S'ACTIVE - L/ ######## DEL AMO BLVD & VERMONT AVE	LOS ANGELES	90020 LOS ANGELES	400048, 4		
FRANCISC# 19320112 STATE RESICERTIFIED ######## 2901 LOS FELIZ BOULEVARD	LOS ANGELES	90039 LOS ANGELES	•	34.12656	
HARD CHR 19340231 STATE RESIACTIVE 7/1/2001 617 EAST 56TH STREET	LOS ANGELES	90011 LOS ANGELES	•	33.99184	
INTERNATI 19390044 STATE RESICERTIFIED ######## 2182 EAST 11TH STREET	LOS ANGELES	90021 LOS ANGELES	300591	34.02421	-118.234
LOS ANGEI 19970021 STATE RESIACTIVE ######## 1700 STADIUM WAY	LOS ANGELES	90012 LOS ANGELES	300784	34.06903	-118.242
PALACE PL 19340646 STATE RESIACTIVE 5/5/2010 710 EAST 29TH STREET	LOS ANGELES	90011 LOS ANGELES	301391	34.01845	-118.263
SAN FERN/ 19990011 FEDERAL S ACTIVE ####### NORTH HOLLYWOOD WELLFIELD AREA	LOS ANGELES	91601 LOS ANGELES	300126, 3	34.1875	-118.384
SAN FERN/ 19990009 FEDERAL S CERTIFIED 1/1/1999 POLLOCK WELLFIELD	LOS ANGELES	90086 LOS ANGELES	300127, 3	34.12944	-118.264
SERVICE PL 60002166 STATE RESIACTIVE 4/1/2015 1855 EAST 62ND STREET	LOS ANGELES	90001 LOS ANGELES	301695, 3	33.98385	-118.239
SOUTHERN 80001142 MILITARY FACTIVE 3/2/2015	LOS ANGELES	LOS ANGELES		34.05556	-118.229
SPENCE PF 60000305 STATE RESIACTIVE 5/5/2006 7047-7051 NORTH FIGUEROA STREET	LOS ANGELES	90042 LOS ANGELES	301285	34.13054	-118.189
STANDARC 71003183 STATE RESIACTIVE 6/4/2004 811,817/819, 825 & 826 E. 62ND STREET	LOS ANGELES	90001 LOS ANGELES	300683, 3	33.98292	-118.26
TAYLOR YA 19470006 STATE RESIACTIVE ######## 2800 KERR STREET	LOS ANGELES	90039 LOS ANGELES	300358	34.09782	-118.239
WATTS/SO 60002017 STATE RESIACTIVE ####### VARIOUS ADDRESSES NEAR ALAMEDA STREE	T LOS ANGELES	90002 LOS ANGELES	900272	33.94876	-118.23
WILLIAM N 19290312 STATE RESIACTIVE - L/ ####### 1300 CARDINAL STREET	LOS ANGELES	90012 LOS ANGELES	300545, 3	34.06318	-118.23
CAMP CON 80001098 MILITARY [ACTIVE ########	LOWER PETERS CANYON RE	ETARDIN ORANGE		33.7625	-117.771
MACGILLIS 20240001 STATE RESIACTIVE 8/1/1985 11272 ROAD 32	MADERA	93639 MADERA	100098	36.91366	-119.965
MADERA P 60001450 STATE RESIACTIVE ######## SOUTH C STREET AND 7TH STREET	MADERA	93638 MADERA	102045	36.9583	-120.056
PURITY OIL 10500005 FEDERAL S'ACTIVE 1/1/1985 3265 SOUTH MAPLE AVENUE	MALAGA	93726 FRESNO	100122	36.68732	-119.746
MANHATT. 80001033 MILITARY FACTIVE 3/2/2015	MANHATTAN BEACH	LOS ANGELES		33.925	-118.358
GORDON F 60000746 STATE RESIACTIVE ######## 1085 SOUTH UNION ROAD	MANTECA	95336 SAN JOAQUIN	101924	37.78831	-121.236
NUR-AL-HL 60002130 STATE RESIACTIVE ######## 1085 SOUTH UNION ROAD	MANTECA	95337 SAN JOAQUIN	102257, 1	37.78833	-121.235
RESOURCE 70000045 STATE RESIACTIVE ######## 24306 HIGHWAY 166	MARICOPA	93252 KERN	101650	35.05835	-119.357
CORNELL-[19360279 STATE RESIACTIVE - L/ ######## 4144 GLENCOE AVENUE	MARINA DEL REY	90292 LOS ANGELES		33.98898	
AMERICAN 3240002 STATE RESIBACKLOG ######## HIGHWAY 49 AND HIGHWAY 88 JUNCTION	MARTELL	95654 AMADOR	100010	38.36809	-120.798
CAMP BEA 58970001 STATE RESIACTIVE ######## 97.74 SQ MI; 40 MI N OF SACRAMENTO	MARYSVILLE	95901 YUBA		39.12833	
CALIFORNI 60001551 STATE RESIACTIVE ######## CALIFORNIA JOINT FORCES HEADQUARTERS :		95655 SACRAMENTO	•	38.55246	
PEMACO C 19281217 FEDERAL S ACTIVE 7/1/2001 5040-5050 SLAUSON BLVD.	MAYWOOD	90270 LOS ANGELES		33.98605	
MCCLELLA 80001223 FEDERAL SI ACTIVE - L/ ####### APPROX 5200 WATT AVE	MCCLELLAN AFB	95652 SACRAMENTO	102047, 1		-121.399
DERRY LAN 60000286 STATE RESIACTIVE 5/1/2006 DERRY LANE	MENLO PARK	94025 SAN MATEO	•	37.45577	
-, -,					

GALLO GL/ 50320003 STATE RESICERTIFIED ######## 3666 W SERVICE RD	MODESTO	95358 STANISLAUS	100063	37.58008	121 061
MODESTO 50950002 FEDERAL SI ACTIVE - LF 1/1/1989 MCHENRY AVE., SOUTH OF ORANGEBURG AV		95351 STANISLAUS		37.65667	
COMMODI 15330008 STATE RESICERTIFIED ######## 11847 UNITED STREET	MOJAVE	93501 KERN	100111, 1		-120.994
MOBILE SN 15330011 STATE RESIACTIVE ######## UNITED STREET & REED ROAD	MOJAVE	93501 KERN		34.98296	
MOJAVE G 80000950 STATE RESIACTIVE ######## 2 MILE SW OF 21000 HACIENDA BLVD	MOJAVE	93505 KERN		35.07581	
PRODUCTS 15130013 STATE RESIBACKLOG 6/8/1995 11601 UNITED STREET	MOJAVE	93501 KERN		34.98891	
PURDY CO 15330010 STATE RESIDENCE ######## 12901 UNITED ROAD	MOJAVE	93501 KERN	100308		-118.151
SILVER QU 15500002 STATE RESICERTIFIED ######## BACK LOT AT 11847 UNITED STREET	MOJAVE	93501 KERN	•	34.99468	
UNITED MI 15330007 STATE RESICERTIFIED 6/1/1995 12433 UNITED STREET	MOJAVE	93501 KERN		35.00249	
FORT ORD 80001228 FEDERAL SIACTIVE ######## 5 MILES N OF MONTEREY, CA	MONTEREY	93941 MONTEREY		36.63604	
, ,	_				
FORT ORD 80001229 FEDERAL SIACTIVE ####### 5 MILES N OF MONTEREY, CA	MONTEREY	93941 MONTEREY		36.57523	
FORT ORD- 80001194 FEDERAL SI ACTIVE ####### DEL REY OAKS	MONTEREY	93941 MONTEREY		36.59079	
OWL CLEA 60002357 STATE RESIACTIVE ####### 153 WEBSTER STREET	MONTEREY	93940 MONTEREY		36.59615	
OPERATINI 19490207 FEDERAL S CERTIFIED 8/2/2012 900 POTRERO GRANDE DR	MONTEREY PARK	91755 LOS ANGELES	300110, 3		-118.104
MILL VALLI 80000719 STATE RESIACTIVE ########	MOUNT TAMALPAIS	MARIN		37.92278	
PLESSEY M 43360069 STATE RESICERTIFIED ######## 2274 MORA DRIVE	MOUNTAIN VIEW	94040 SANTA CLARA			-122.101
CAMA DES 36970013 MILITARY EBACKLOG ######## MOJAVE DESERT-VARIOUS SITES	NEEDLES	92363 SAN BERNARDING)	0	0
CAMP IBIS 36970011 STATE RESICERTIFIED 1/6/2009 21 MILES NORTHWEST OF NEEDLES	NEEDLES	92363 SAN BERNARDING	400765	34.96694	-114.817
DAVIS MILI 60000691 STATE RESIBACKLOG ######## 13145 NORTH BLOOMFIELD-GRANITEVILLE RI	(NEVADA CITY	95959 NEVADA	102007	39.2914	-120.98
LAVA CAP 29100004 FEDERAL S ACTIVE ####### 14501 LAVA CAP MINE ROAD	NEVADA CITY	95959 NEVADA	100337, 1	39.22867	-120.972
PINEWOOI 29100010 STATE RESIBACKLOG 1/1/2008 NORTH BLOOMFIELD ROAD	NEVADA CITY	95959 NEVADA	101487	39.28981	-120.99
CAMP DUN 80000005 STATE RESIACTIVE ######## 10 MILES N/E OF NILAND	NILAND	92257 IMPERIAL	401677, 4	33.25833	-115.467
CHOCOLAT 13970002 STATE RESIACTIVE ####### NAVAL WEAPONS RANGE, EAST OF SALTON S	INILAND	92257 IMPERIAL	400033	33.26669	-115.467
CORONA N 80001224 MILITARY FACTIVE 6/4/2014 IN THE CITY OF NORCO WEST OF I-15 BETWEE	NORCO	92860 RIVERSIDE	400496	33.922	-117.568
WYLE LAB\$ 33730084 STATE RESIACTIVE - L/ ######## 1841 HILLSIDE AVENUE	NORCO	92860 RIVERSIDE	401144	33.91046	-117.542
MCCLELLA 80001199 FEDERAL S CERTIFIED ####### 4450 ROSEVILLE ROAD	NORTH HIGHLANDS	95660 SACRAMENTO	101873	38.649	-121.391
DEPT. OF E 80001201 STATE RESIACTIVE 9/9/2014 HIGHWAY 101 3 MI N OF LUCAS VALLEY ROAI	NOVATO	94947 MARIN	201597	38.05629	-122.527
HAMILTON 21970010 STATE RESIACTIVE ######## HIGHWY 101; 3 MI N OF LUCAS VALLEY ROAD	NOVATO	94947 MARIN	201268	38.06188	-122.523
HAMILTON 21970012 STATE RESIACTIVE ######## HIGHWAY 101; 3 MI N OF LUCAS VALLEY ROA	NOVATO	94947 MARIN	200714	38.06444	-122.492
NOVATO D 21970011 STATE RESIACTIVE - L/ ######## HIGHWAY 101 3 MI N OF LUCAS VALLEY ROAI		94947 MARIN	200529	38.04593	-122.514
ACTION PL 1340116 STATE RESICERTIFIED ######## 10132 EDES AVENUE	OAKLAND	94603 ALAMEDA	201569	37.73513	-122.18
AMCO CHE 1390001 FEDERAL S ACTIVE 5/1/2002 1414 THIRD STREET	OAKLAND	94607 ALAMEDA	200687	37.80284	-122.295
CAL TECH 1340118 STATE RESIACTIVE 5/2/2006 825, 829, 841 31ST STREET	OAKLAND	94608 ALAMEDA	200882	37.82087	-122.274
COMMERC 1720110 STATE RESIACTIVE ####### 1250-1276, 1284 W. GRAND & 2232 POPLAR		94607 ALAMEDA		37.81655	
DUTCH BO 1390006 STATE RESICERTIFIED ####### 4825 SAN LEANDRO STREET	OAKLAND	94601 ALAMEDA	201426	37.7665	_
GENERAL E 1360059 STATE RESIACTIVE - L/ ####### 5441 EAST 14TH STREET	OAKLAND	94601 ALAMEDA		37.76532	
HARD CHR 1870003 STATE RESIACTIVE ####### 750 107TH AVENUE	OAKLAND	94603 ALAMEDA		37.73253	
HARRIS DR 1720109 STATE RESIACTIVE ######## 2801 MARTIN LUTHER KING JR. WAY	OAKLAND	94609 ALAMEDA		37.73233	
HEROIC W. 80001225 STATE RESICERTIFIED 6/5/2015 2400 ENGINEER ROAD	OAKLAND	94607 ALAMEDA		37.82498	-122.272
HOWARD I 1440006 STATE RESICERTIFIED ####### EMBARCADERO WEST AND MARKET STREETS		94604 ALAMEDA		37.79722	
				37.81093	
JENKINS AL 1750025 STATE RESIBACKLOG ######## 1778 10TH STREET LANE MET, 60000594 STATE RESIACTIVE ####### 2942 SAN PABLO AVENUE	OAKLAND OAKLAND	94607 ALAMEDA 94608 ALAMEDA		37.81093	
MYERS DRI 1340111 STATE RESICERTIFIED ####### 6549 SAN PABLO AVENUE	OAKLAND	94608 ALAMEDA		37.84857	
NORTHWE 1340123 STATE RESIACTIVE - L/ ####### 1218 24TH STREET	OAKLAND	94607 ALAMEDA	,		-122.285
OAKLAND 1970006 STATE RESIACTIVE ####### 2475-D WEST 12TH STREET	OAKLAND	94607 ALAMEDA	200233	37.82	-122.3

OAKLAND 1970016 STATE RESIACTIVE - L	######## 700 MURMANSK STREET, SUITE 3	OAKLAND	94607 ALAMEDA	201537	37.81033	-122.312
PORT OF C 1510021 STATE RESICERTIFIED	####### DENNISON AND EMBARCADERO STREETS	OAKLAND	94606 ALAMEDA	200083	37.77977	-122.243
PORT OF C 1280092 STATE RESICERTIFIED	####### 2500 7TH STREET	OAKLAND	94607 ALAMEDA	201392	37.81087	-122.322
SOUTHERN 1400010 STATE RESICERTIFIED	####### CYPRESS CORRIDOR	OAKLAND	94607 ALAMEDA	200486	37.80306	-122.299
UNION PAC 1400015 STATE RESIACTIVE	4/4/2002 700 73RD AVENUE	OAKLAND	94621 ALAMEDA	201420	37.75231	-122.198
COOK BAT 7360035 STATE RESICERTIFIED	####### 139 HILL AVENUE	OAKLEY	94561 CONTRA COSTA	200072	37.9736	-121.692
CAMP PEN 37970009 FEDERAL S'ACTIVE - LA	/ 5/1/1986 125,000 ACRES; 35 MI NO OF SAN DIEGO, CA	OCEANSIDE	92055 SAN DIEGO	400025	33.36528	-117.423
TRI-CITY PL 37340034 STATE RESIACTIVE	####### 1307 SOUTH COAST HIGHWAY	OCEANSIDE	92054 SAN DIEGO	401562, 5	33.18236	-117.369
GE ENGINE 36370024 STATE RESIACTIVE	####### 2264 E. AVION PLACE	ONTARIO	91761 SAN BERNARDINC	400070	34.04933	-117.6
ORLAND C 11720001 STATE RESICERTIFIED	####### 726 FIFTH STREET	ORLAND	95963 GLENN	100348	39.74655	-122.196
PARMENTI 54070063 STATE RESIBACKLOG	####### 13133 AVENUE 416	OROSI	93647 TULARE	100167, 1	36.54472	-119.279
KOPPERS II 4240001 FEDERAL S CERTIFIED	####### BAGGETT-MARYSVILLE ROAD	OROVILLE	95965 BUTTE	100084	39.46949	-121.562
OPHIR RO/ 60000689 STATE RESIACTIVE	8/1/2007 ASSESSOR'S PARCEL NUMBERS (APNS)078-01	OROVILLE	95965 BUTTE	101886	39.46656	-121.571
SIERRA PAI 4240024 STATE RESIBACKLOG	####### 1980 KUSEL ROAD	OROVILLE	95966 BUTTE	100342	39.45815	-121.558
HALACO El 56330002 FEDERAL S'ACTIVE	####### 6200 PERKINS ROAD	OXNARD	93033 VENTURA	300075, 3	34.13919	-119.183
VEHICLE PI 56010004 STATE RESIBACKLOG	6/8/1995 5601 EDISON DR	OXNARD	93033 VENTURA		34.14592	
HOLCHEM, 19281213 STATE RESIACTIVE	####### 13546 DESMOND STREET	PACOIMA	91331 LOS ANGELES	300593	34.27496	-118.427
AIR FORCE 19970004 STATE RESIACTIVE	7/1/1994 5832 ACRES; BETWN PALMDALE AND LANCAS	PALMDALE	93550 LOS ANGELES	300002	34.62961	-118.092
AYDIN ENE 43360085 STATE RESICERTIFIED	####### 3180 HANOVER STREET	PALO ALTO	94304 SANTA CLARA	200010	37.41465	-122.146
COHERENT 43360115 STATE RESICERTIFIED	######## 3210 PORTER DR	PALO ALTO	94304 SANTA CLARA	200138	37.40725	-122.147
HEWLETT I 43360078 STATE RESICERTIFIED	######## 3215 PORTER DRIVE	PALO ALTO	94304 SANTA CLARA	200119	37.40898	-122.148
HEWLETT I 43350089 STATE RESICERTIFIED	####### CORNER OF PAGE MILL RD AND PORTER DRIV	PALO ALTO	94304 SANTA CLARA	200142	37.40971	-122.152
HILLVIEW I 43360077 STATE RESICERTIFIED	####### HILLVIEW AVENUE AND PORTER DRIVE	PALO ALTO	94304 SANTA CLARA	200048	37.40778	-122.15
LOCKHEED 43280130 STATE RESICERTIFIED	####### 3170 PORTER DRIVE	PALO ALTO	94304 SANTA CLARA	200139	37.4069	-122.152
SMITHKLIN 43360079 STATE RESICERTIFIED	####### 3400 HILLVIEW AVENUE	PALO ALTO	94304 SANTA CLARA	200118	37.40406	-122.149
SYNTEX 43360114 STATE RESICERTIFIED	####### 3300 HILLVIEW AVE	PALO ALTO	94304 SANTA CLARA	200141	37.40688	-122.146
TELEDYNE 43360088 STATE RESICERTIFIED	######## 3165 PORTER DR	PALO ALTO	94304 SANTA CLARA	200140	37.40902	-122.15
TELEDYNE 43360073 STATE RESICERTIFIED	######## 3176 PORTER DRIVE	PALO ALTO	94304 SANTA CLARA	200096	37.40684	-122.149
VARIAN 43360086 STATE RESICERTIFIED		PALO ALTO	94304 SANTA CLARA	200122	37.41999	-122.137
WATKINS J 43360076 STATE RESICERTIFIED	####### 3333 HILLVIEW AVENUE	PALO ALTO	94304 SANTA CLARA	200137	37.40809	-122.143
PALOS VER 19460003 FEDERAL S'ACTIVE	####### PACIFIC OCEAN - WHITE POINT OUTFALL	PALOS VERDES	90000 LOS ANGELES	400645	33.7105	-118.322
WORLD RA 4750001 STATE RESIACTIVE	8/2/2000 8336 SKYWAY	PARADISE	95969 BUTTE	101452	39.77852	-121.605
JET PROPU 19970008 FEDERAL S ACTIVE	####### 4800 OAK GROVE DRIVE	PASADENA	91109 LOS ANGELES	300318	34.19865	-118.175
NAVAL INF 19970020 STATE RESIACTIVE	####### 3202 E FOOTHILL BLVD		91107 LOS ANGELES		34.14922	
NIRF (UND 80000707 MILITARY FACTIVE	####### **DUPLICATE** SEE NAVAL INFORMATION		LOS ANGELES	, ,	34.14944	
BUENA VIS 60000405 FEDERAL S'ACTIVE	####### 12 MILES WEST OF PASO ROBLES, SAN LUIS O		93447 SAN LUIS OBISPO	101804	35.6259	
SHERWOO 80000757 MILITARY LACTIVE	####### 298 SHERWOOD ROAD	PASO ROBLES	SAN LUIS OBISPO		35.61503	
PETALUM/ 80001081 STATE RESIACTIVE	#######	PETALUMA	SONOMA		38.18361	
MARINE C(19970022 STATE RESIACTIVE	####### 3551 SAN GABRIEL RIVER PARKWAY		90660 LOS ANGELES	301029	34.01417	
ROSEN'S EI 19360068 STATE RESICERTIFIED			90660 LOS ANGELES		34.0058	
VENDO CO 10590001 STATE RESIACTIVE	######## 7209 NORTH INGRAM AVENUE		93650 FRESNO	-	36.84161	
DELTA AUT 7750026 STATE RESIACTIVE	6/5/2009 6 INDUSTRY ROAD				38.02988	
HARMON I 54070051 STATE RESIACTIVE	5/1/1985 1494 SOUTH AIRPORT DRIVE		93256 TULARE	,	35.9609	
	6/8/1994 EUREKA HILL ROAD; EA OF POINT ARENA, CA		95468 MENDOCINO	200585	38.8911	-119.505
POINT MU 56970001 STATE RESIACTIVE	####### 4500 ACRES; 50 MI NW OF LOS ANGELES, CA		93042 VENTURA		34.11694	
TOTAL MID 30370001 STATE RESPACTIVE	THE THE TOU ACINES, SO WILLIAM OF LOS ANGELES, CA	I OHAT MIOOO	JJUTZ VLINTUNA	200112	34.11034	113.104

POINT AND COOMICA STATE RESEASTING TO A SECOND FOR A MICHIEF	DOINT MUCH	02042 VENTUDA	200112	24.44.604	110 101
POINT MU 60001864 STATE RESIACTIVE 5/9/2011 4500 ACRES; 50 MI NW OF LOS ANGELES	POINT MUGU	93042 VENTURA		34.11694	
A Z DECASI 19330371 STATE RESICERTIFIED ####### 1420 SOUTH SIGNAL DRIVE	POMONA	91766 LOS ANGELES		34.04629	
NAVAL BA: 56970002 STATE RESIACTIVE 3/3/2006 1000 23RD AVE	PORT HUENEME	93043 VENTURA		34.16161	
NAVAL BAS 60001865 STATE RESIACTIVE 5/9/2011 1000 23RD AVE	PORT HUENEME	93043 VENTURA		34.16161	
SOUTHWE: 60000999 STATE RESIACTIVE ####### 985 SEASIDE AVENUE	PORT OF LOS ANGELES	90731 LOS ANGELES		33.73449	-118.27
BECKMAN 54360008 FEDERAL S ACTIVE ####### 167 WEST POPLAR AVENUE	PORTERVILLE	93257 TULARE		36.05078	
AEROJET G 34370002 FEDERAL S'ACTIVE - L/ 1/1/1983 HIGHWAY 50 AND AEROJET ROAD	RANCHO CORDOVA	95670 SACRAMENTO	-	38.61497	
MCDONNE 34370069 STATE RESIACTIVE - L/ ####### 11505 DOUGLAS RD	RANCHO CORDOVA	95742 SACRAMENTO	,	38.5616	
PURITY OIL 34170001 STATE RESIACTIVE - L/ ####### WHITE ROCK ROAD & KILGORE ROAD	RANCHO CORDOVA	95813 SACRAMENTO		38.58932	
WHITE ROI 60001748 STATE RESIACTIVE ####### WHITE ROCK DUMPS (WRD) 1 AND 2 ARE LO		95742 SACRAMENTO		38.60124	
POINT VICI 19970023 STATE RESICERTIFIED 1/6/2009 PALOS VERDES DR. AND HAWTHORNE BLVD.	, RANCHO PALOS VER	90275 LOS ANGELES	400953	33.74167	-118.406
TRABUCO 30970010 STATE RESIBACKLOG ######## RANCHO SANTA MARGARITA	RANCHO SANTA MAG	92688 ORANGE	400921	33.66556	-117.588
MODERN [60001154 STATE RESIACTIVE 5/6/2010 609 WALNUT STREET	RED BLUFF	96080 TEHAMA	102020	40.17664	-122.239
IRON MOU 45100001 FEDERAL S'ACTIVE 1/1/1983 OFF HWY 299 - 9 MI NW OF REDDING	REDDING	96001 SHASTA	100077	40.67083	-122.528
SHORT'S S(45500010 STATE RESIBACKLOG ######## 2041 GIRVAN ROAD	REDDING	96001 SHASTA	100502	40.51142	-122.379
FOLSOM P 34920001 STATE RESICERTIFIED ####### N OF FOLSOM CITY; ADJ TO AMERICAN RIVER	R REPRESA	95671 SACRAMENTO	100058	38.69394	-121.157
BLAIR SOU 7490012 STATE RESIACTIVE ######## AT THE FOOT OF SOUTH 51ST STREET	RICHMOND	94804 CONTRA COSTA	200060, 2	37.91037	-122.327
COOPER CI 7280154 STATE RESICERTIFIED 3/7/1997 2801 GIANT ROAD	RICHMOND	94806 CONTRA COSTA	200023	37.97482	-122.356
DREW SALI 7500035 STATE RESICERTIFIED ######## 1156 CASTRO STREET	RICHMOND	94804 CONTRA COSTA	200026	37.94969	-122.368
ELECTRO F 1330044 STATE RESIACTIVE 5/2/2006 130 NEVIN AVENUE	RICHMOND	94801 CONTRA COSTA	201414	37.93658	-122.368
FASS MET/ 7330030 STATE RESICERTIFIED ######## 818 W. GERTRUDE AVENUE	RICHMOND	94801 CONTRA COSTA	200037	37.95449	-122.378
FMC CORP 7280011 STATE RESICERTIFIED ####### 855 PARR BLVD	RICHMOND	94801 CONTRA COSTA	200033	37.96783	-122.357
HARBORFF 70000178 STATE RESIACTIVE 7/1/2005 MEADE SOUTH 49TH EAST MONTGOMERY	RICHMOND	94804 CONTRA COSTA		37.91234	
HARBOUR 7340024 STATE RESIACTIVE - L/ ######## 738 HARBOUR WAY SOUTH	RICHMOND	94804 CONTRA COSTA	200043	37.92173	-122.36
LIQUID GO 7290039 FEDERAL S'ACTIVE - L/ ####### HOFFMAN BLVD & S 47TH ST	RICHMOND	94804 CONTRA COSTA		37.91011	
PORT OF R 7370030 STATE RESICERTIFIED ######## 1312 CANAL BLVD	RICHMOND	94804 CONTRA COSTA	200084, 2		-122.37
REACTION 7280013 STATE RESIACTIVE ####### 840 MORTON AVENUE	RICHMOND	94806 CONTRA COSTA	•	37.98192	
RICHMONI 7990005 STATE RESICERTIFIED ####### 2887 AND 2989 PULLMAN AVENUE	RICHMOND	94804 CONTRA COSTA		37.92862	
UNITED HE 7280015 FEDERAL S ACTIVE - L/ 1/1/1983 8TH & WRIGHT	RICHMOND	94804 CONTRA COSTA		37.92097	
UNIVERSIT 7730003 STATE RESIACTIVE ####### 1301 SOUTH 46TH STREET	RICHMOND	94804 CONTRA COSTA		37.91536	
ZENECA RII 7280002 STATE RESIACTIVE - L/ ####### 1415 SOUTH 47TH STREET	RICHMOND	94804 CONTRA COSTA		37.9119	
CHINA LAK 15970006 STATE RESIACTIVE - L/ 5/1/1986 APPROX 1,710 SQ MI; 120 MILES NORTHEAS'		93555 KERN	100038	35.6	-117.48
CUDDEBAC 36970016 STATE RESIBACKLOG ######## RIDGECREST	RIDGECREST	93555 SAN BERNARDINC		35.28675	
RIVERBANI 50340001 FEDERAL S'ACTIVE 5/1/1986 5300 CLAUS ROAD	RIVERBANK	95367 STANISLAUS	100125		-120.922
ALARK HAF 33340002 FEDERAL S ACTIVE ######## 2775 MAIN STREET	RIVERSIDE	92501 RIVERSIDE		33.99167	
			400003	33.87222	
CAMP HAA 80000214 MILITARY FBACKLOG ######## SOUTH-WEST OF MARCH AIR FORCE BASE AN		92518 RIVERSIDE	401244		
CAMP HAA 71000062 STATE RESIBACKLOG 3/9/2016 WEST AND NORTH OF THE INTERSECTION OF		92518 RIVERSIDE	401244	33.8678	
CP ANZA (J 33970009 MILITARY FACTIVE ######## ARLANZA DISTRICT	RIVERSIDE	92505 RIVERSIDE		33.94494	
MARCH All 33970002 FEDERAL S'ACTIVE - L/ 5/1/1986 3430 BUNDY AVE.,	RIVERSIDE	92518 RIVERSIDE		33.87519	
MARCH All 33970004 FEDERAL S'ACTIVE ####### 3,545 ACRES; EAST OF RIVERSIDE	RIVERSIDE	92518 RIVERSIDE	400689		-117.263
STRINGFEL 33490001 FEDERAL S CERTIFIED 6/1/2016 3450 PYRITE STREET	RIVERSIDE	92509 RIVERSIDE		34.02944	
STRINGFEL 60002365 FEDERAL S CERTIFIED 6/1/2016 3450 PYRITE STREET	RIVERSIDE	92509 RIVERSIDE		34.02944	-11/.454
TORNEY GI 71000035 MILITARY I BACKLOG 4/1/2005 RIVERSIDE	RIVERSIDE	92503 RIVERSIDE	400999		100 :
BLUE LEDG 60001382 FEDERAL S ACTIVE 3/2/2011 2 MILES SOUTH OF OREGON ON ROAD 1060		0 SISKIYOU		41.95895	
PALOS VER 19490181 STATE RESICERTIFIED ######## 25706 HAWTHORNE BLVD.	ROLLING HILLS ESTATES	90274 LOS ANGELES	400116	33.78478	-118.348

AVENUE A 15490015 STATE RESIACTIVE	####### AVENUE A 1-1/2 MILE EAST HIGHWAY 14	ROSAMOND	93560 KERN	101339	34.8208	-118.139
BRIDGES A 15280037 STATE RESIACTIVE	5/1/2006 1200 ORANGE AVENUE	ROSAMOND	93560 KERN		34.85704	
	2/7/1997 INTERSECTION OF MARIE AVE & W 15TH ST	ROSAMOND	93560 KERN		34.84956	
JOHN ALEX 15330004 STATE RESICERTIFIED		ROSAMOND	93560 KERN		34.84572	-118.16
OSAGE INE 15330001 STATE RESIACTIVE	6/8/1995 2001 15TH STREET, WEST	ROSAMOND	93560 KERN		34.85192	
OSAGE INE 15330005 STATE RESIACTIVE	6/2/1994 60TH STREET WEST T9N, R13W, S10 SE CORN	I ROSAMOND	93560 KERN	101534	34.88333	-118.233
S R KILBY P 15100009 STATE RESIACTIVE	####### 2021 WEST 15TH STREET	ROSAMOND	93560 KERN	100183	34.85038	-118.159
SP-ROSEVI 31400007 STATE RESIACTIVE	1/1/1983 SP ROSEVILLE RAILYARD	ROSEVILLE	95678 PLACER	100138	38.7291	-121.308
SP-ROSEVI 31400006 STATE RESIACTIVE	####### SP ROSEVILLE RAILYARD	ROSEVILLE	95678 PLACER	100138	38.7473	-121.288
CALTRANS, 41280108 STATE RESIBACKLOG	####### 166 HARBOR WAY	S SAN FRANCISCO	94080 SAN MATEO	200875	37.65239	-122.401
KEN'S BUFI 70000051 STATE RESIBACKLOG	####### 1816 21ST STREET	SACRAMENTO	95814 SACRAMENTO	101737	38.56694	-121.483
MATHER A 34970003 FEDERAL SIACTIVE - LA	1/1/1987 5,485 ACRES; 12 MI EA OF SACRAMENTO, CA	SACRAMENTO	95655 SACRAMENTO	100104	38.55972	-121.296
MCCLELLA 34970002 FEDERAL S'ACTIVE - LA	5/1/1986 APPROX 5200 WATT AVE	SACRAMENTO	95652 SACRAMENTO	100105	38.66	-121.399
MCCLELLA 80001195 FEDERAL S'ACTIVE - LA	######## CORNER OF BELL AVE AND PARKER STREET	SACRAMENTO	95652 SACRAMENTO	101850	38.66	-121.399
ORCHARD 34280048 STATE RESICERTIFIED	####### 1731 17TH STREET	SACRAMENTO	95814 SACRAMENTO	100116	38.56899	-121.487
PG&E - SA(34490048 STATE RESIACTIVE - L	1/1/1987 2000 FRONT STREET	SACRAMENTO	95818 SACRAMENTO	100160	38.57219	-121.511
SACRAMEN 34970004 FEDERAL SIACTIVE - LA	5/1/1986 8350 FRUITRIDGE ROAD	SACRAMENTO	95813 SACRAMENTO	100126	38.51861	-121.396
SACRAMEN 34370014 STATE RESIACTIVE	####### 2809 S STREET	SACRAMENTO	95816 SACRAMENTO	100247	38.56411	-121.473
SIMS MET! 70000019 STATE RESIACTIVE	####### 130 NORTH 12 STREET; AT INTERSECTION OF	SACRAMENTO	95814 SACRAMENTO	101762	38.59031	-121.488
UNION PA(34400003 STATE RESIACTIVE - LA	1/1/1987 3675 WESTERN PACIFIC AVENUE	SACRAMENTO	95818 SACRAMENTO	100151, 1	38.54293	-121.483
UP, DOWN 34400004 STATE RESIACTIVE	1/1/1983 401 STREET	SACRAMENTO	95814 SACRAMENTO	100139	38.58586	-121.502
UP, DOWN 34400008 STATE RESIACTIVE - L	6/3/1992 401 STREET	SACRAMENTO	95814 SACRAMENTO	100139	38.5895	-121.497
UP, DOWN 70000034 STATE RESIACTIVE	####### 400 STREET	SACRAMENTO	95814 SACRAMENTO	100139	38.5833	-121.501
UP, DOWN 34400005 STATE RESICERTIFIED	####### 401 STREET	SACRAMENTO	95814 SACRAMENTO	100139	38.5885	-121.499
UP, DOWN 60001957 STATE RESIACTIVE	1/8/2014 401 STREET	SACRAMENTO	95814 SACRAMENTO	100139	38.58422	-121.5
BERMAN S 27350001 STATE RESICERTIFIED	####### HIGHWAY 101 AT SPENCE ROAD	SALINAS	93908 MONTEREY	200014	36.6125	-121.565
BOLINAS A 60001614 STATE RESIACTIVE	####### 4&8 BOLINAS AVENUE & 21 SAN ANSELMO A	NSAN ANSELMO	94960 MARIN	201927	37.96961	-122.561
NEWMARk 36990002 FEDERAL S ACTIVE	####### BUNKER HILL GROUND WATER BASIN	SAN BERNARDINO	92408 SAN BERNARDINC	400259	34.1821	-117.345
NORTON A 36970004 FEDERAL S'ACTIVE - LA	5/1/1986 2,208 ACRES;58 MI EA OF LOS ANGELES, CA	SAN BERNARDINO	92409 SAN BERNARDINC	400108	34.0966	-117.248
WESTERN 80000623 STATE RESIACTIVE	#######	SAN CARLOS	SAN MATEO		37.48972	-122.296
BROWN FII 80000890 STATE RESIBACKLOG	9/1/2015 2 MILES NORTHEAST OF OTEY MESA, SAN DI	E SAN DIEGO	92154 SAN DIEGO	401302	32.5875	-116.942
CAMP ELLI 37970025 STATE RESIACTIVE	####### NORTHERN PORTION OF SAN DIEGO	SAN DIEGO	92103 SAN DIEGO	400690	32.82278	-117.103
MCAS MIR 37970010 STATE RESIACTIVE	####### OFF OF MIRAMAR BOULEVARD	SAN DIEGO	92136 SAN DIEGO	400097	32.87917	-117.125
NAVAL AM 37970013 STATE RESIACTIVE	7/1/1994 NAVAL AMPHIBIOUS BASE, CORONADO	SAN DIEGO	92155 SAN DIEGO	400041	32.67417	-117.166
NAVAL AM 60001869 STATE RESIACTIVE	7/1/1994 NAVAL AMPHIBIOUS BASE-CORONADO	SAN DIEGO	92155 SAN DIEGO		32.67417	
NAVAL BAS 37970012 STATE RESIACTIVE	7/1/1994 SAN DIEGO BAY, 113 NAVAL BASE 610	SAN DIEGO	92136 SAN DIEGO		32.68278	
NAVAL BAS 60001866 STATE RESIACTIVE	7/1/1994 SAN DIEGO BAY, 113 NAVAL BASE 610	SAN DIEGO	92136 SAN DIEGO		32.68278	
NORTH ISL 37970011 STATE RESIACTIVE	5/1/1991 2520 ACRES; ADJACENT TO CORONADO, CA	SAN DIEGO	92135 SAN DIEGO		32.70119	
POINT LON 37970016 STATE RESIACTIVE	7/1/1994 SYLVESTER & HUMPHRIES	SAN DIEGO	92152 SAN DIEGO		32.70833	
SAN DIEGC 60001020 STATE RESIACTIVE	1/8/2008 989 HERITAGE ROAD	SAN DIEGO	92154 SAN DIEGO	401413	32.5785	
SAN DIEGC 37970022 STATE RESIACTIVE	1/1/1995 4297 PACIFIC COAST HIGHWAY	SAN DIEGO	92186 SAN DIEGO	400495		-117.213
SUNFLOWI 37590003 STATE RESIACTIVE	####### 9755 DISTRIBUTION AVENUE	SAN DIEGO	92121 SAN DIEGO		32.88449	
1450 MAR 38330005 STATE RESICERTIFIED	• •	SAN FRANCISCO	94124 SAN FRANCISCO		37.74907	
ARLENE'S (60001242 STATE RESIACTIVE	8/8/2011 2017 CHESTNUT STREET	SAN FRANCISCO	94123 SAN FRANCISCO		37.80059	
BAYVIEW F 70000015 STATE RESIBACKLOG	####### NEAR INTERSECTION OF SHAFTER AVENUE A	N SAN FRANCISCO	94124 SAN FRANCISCO	201572	37.72696	-122.383

HUNTERS I 38440002 FEDERAL S'ACTIVE	5/1/1986 965 ACRES; SE PORTION OF SF, CA	SAN FRANCISCO	94124 SAN FRANCISCO	200050	37.72972	-122 264
	5/1/1986 965 ACRES; SE PORTION OF SF, CA	SAN FRANCISCO	94124 SAN FRANCISCO		37.72611	
	5/1/1986 965 ACRES; SE PORTION OF SF, CA	SAN FRANCISCO	94124 SAN FRANCISCO		37.72111	
HUNTERS F 38440005 FEDERAL S'ACTIVE	5/1/1986 965 ACRES; SE PORTION OF SF, CA	SAN FRANCISCO	94124 SAN FRANCISCO		37.71972	
HUNTERS F 38440007 FEDERAL S'ACTIVE	####### 965 ACRES; SE PORTION OF SF, CA	SAN FRANCISCO	94124 SAN FRANCISCO		37.71889	
	1/1/1991 550 ACRES; BETWN SAN FRANCISCO & OAKI		94130 SAN FRANCISCO		37.81673	
NAVAL STA 60001162 STATE RESIACTIVE	####### TREASURE ISLAND, BETWEEN SAN FRANCISC		94130 SAN FRANCISCO	,	37.81323	-122.36
NAVAL STA 60001092 STATE RESIACTIVE	1/1/1991 TREASURE ISLAND, BETWEEN SAN FRANCISC		94130 SAN FRANCISCO		37.82724	
NAVAL STA 60001093 STATE RESIACTIVE	1/1/1991 TREASURE ISLAND, BETWEEN SAN FRANCISC		94130 SAN FRANCISCO		37.81897	
NAVAL STA 60001094 STATE RESIACTIVE	1/1/1991 TREASURE ISLAND, BETWEEN SAN FRANCISC		94130 SAN FRANCISCO		37.82463	
NAVAL ST# 60001095 STATE RESIACTIVE	1/1/1991 TREASURE ISLAND, BETWEEN SAN FRANCISC		94130 SAN FRANCISCO		37.81667	
NAVAL STA 60001096 STATE RESIACTIVE	1/1/1991 YERBA BUENA ISLAND, BETWEEN SAN FRAN		94130 SAN FRANCISCO		37.80901	
NAVAL ST# 60001164 STATE RESIACTIVE	####### TREASURE ISLAND, BETWEEN SAN FRANCISC		94130 SAN FRANCISCO		37.81192	
NAVAL STA 60001104 STATE RESIACTIVE	1/1/1991 TREASURE ISLAND, BETWEEN SAN FRANCISC		94130 SAN FRANCISCO		37.82562	
NAVAL STA 60001098 STATE RESIACTIVE	1/1/1991 TREASURE ISLAND, BETWEEN SAN FRANCISC		94130 SAN FRANCISCO		37.82629	
NAVAL STA 60001099 STATE RESIACTIVE	1/1/1991 TREASURE ISLAND, BETWEEN SAN FRANCISC		94130 SAN FRANCISCO		37.83082	
NAVAL STA 60001093 STATE RESIACTIVE	1/1/1991 TREASURE ISLAND, BETWEEN SAN FRANCISC		94130 SAN FRANCISCO		37.83053	
NAVAL STA 60001161 STATE RESIACTIVE	####### TREASURE ISLAND, BETWEEN SAN FRANCISC		94130 SAN FRANCISCO		37.81409	-122.36
	####### 1,400 AC; N-MOST TIP OF THE SF PENINSUL/		94129 SAN FRANCISCO		37.79778	
	####### BARNARD AND FERNANDEZ AVENUE	SAN FRANCISCO	94129 SAN FRANCISCO		37.79527	
	######## BAYSHORE BLVD AND SUNNYDALE AVE.	SAN FRANCISCO	94134 SAN FRANCISCO		37.71056	
AJ COMME 60000133 STATE RESIACTIVE	######## 1173-1175 CAMPBELL AVENUE	SAN JOSE	95126 SANTA CLARA		37.34627	
	####### ALAMITOS ROAD & HICKS ROAD	SAN JOSE	95110 SANTA CLARA		37.17392	
LORENTZ E 43300026 FEDERAL S'ACTIVE - L		SAN JOSE	95112 SANTA CLARA		37.31864	
MOYER CH 60001663 STATE RESIACTIVE	####### 1300,1310, 1336 OLD BAYSHORE HWY	SAN JOSE	95112 SANTA CLARA	201936		
	1/1/1985 FT OF LIBERTY ST GUADALUPE RIV	SAN JOSE	95002 SANTA CLARA		37.44106	
SWISS CLE, 60001870 STATE RESIACTIVE	######## 14540 CAMDEN AVENUE	SAN JOSE	95124 SANTA CLARA		37.26126	
	####### 2980 & 3030 STEVENS CREEK BOULEVARD	SAN JOSE	95113 SANTA CLARA		37.31985	
CATERPILL 1350119 STATE RESICERTIFIED		SAN LEANDRO	94577 ALAMEDA		37.72397	
CINTAS/DE 1890017 STATE RESICERTIFIED	• •	SAN LEANDRO	94578 ALAMEDA		37.70991	
DWA PLUN 1990002 STATE RESIACTIVE	####### SAN LEANDRO (GROUNDWATER CONTAMIN		94578 ALAMEDA		37.70898	
KAISER AEI 1990015 STATE RESICERTIFIED	•	SAN LEANDRO	94577 ALAMEDA		37.72003	
	####### 2350 AND 2450 WASHINGTON AVENUE	SAN LEANDRO	94577 ALAMEDA		37.71594	
CAMP SAN 40910001 STATE RESIACTIVE	####### 7 MILES W OF SAN LUIS OBISPO/HWY 1	SAN LUIS OBISPO	93401 SAN LUIS OBISPO		35.33333	-120.7
SAN LUIS C 80000759 MILITARY FACTIVE	4/7/2015	SAN LUIS OBISPO	SAN LUIS OBISPO		35.24015	
SAN LUIS C 60001343 STATE RESIACTIVE	####### LOS OSOS VALLEY ROAD AND HWY. 101	SAN LUIS OBISPO	93401 SAN LUIS OBISPO			-120.682
DEFENSE F 19970007 STATE RESIACTIVE	3/4/2009 3171 NORTH GAFFEY STREET	SAN PEDRO	90731 LOS ANGELES		33.77806	
GATX ANN 19420029 STATE RESICERTIFIED	• •	SAN PEDRO	90731 LOS ANGELES	•	33.7268	
RICHARDS 60000408 STATE RESIACTIVE	####### 538 WEST 5TH STREET	SAN PEDRO	90731 LOS ANGELES	•	33.73992	
SAN PEDR(70000023 STATE RESIACTIVE	4/1/2005 PORT OF LOS ANGELES BERTHS 44-45	SAN PEDRO	90731 LOS ANGELES	401270, 9		-118.275
(CAFS) HE# 80000061 MILITARY FACTIVE	1/7/2016	SAN SIMEON	SAN LUIS OBISPO	•	35.65833	
DIESEL LOC 60001272 STATE RESIACTIVE	4/6/2010 1331 E. WARNER AVE	SANTA ANA	92705 ORANGE		33.71594	
ENGINEERI 71003391 STATE RESIACTIVE	######## 1224 E. POMONA STREET	SANTA ANA	92707 ORANGE	•	33.72544	
SOCO WES 60002003 STATE RESIACTIVE	4/1/2014 1341 MAYWOOD AVENUE	SANTA ANA	92705 ORANGE		33.71695	
SO CAL GA 42490036 STATE RESICERTIFIED	• •	SANTA BARBARA	93103 SANTA BARBARA		34.42197	
					- "	

UC SANTA 42970004 MILITARY FBACKLOG ######	## SANTA RARRARA AIRPORT DAVID LOVE PLAC	Ί SΔΝΤΔ ΒΔΡΡΔΡΔ	93111 SANTA BARBARA	300781	34.41667	-119 846
MANSION 43280031 STATE RESICERTIFIED ######	•	SANTA CLARA	95054 SANTA CLARA		37.39898	
	## 23357 LYONS AVENUE	SANTA CLARITA	91355 LOS ANGELES		34.38093	
	## 22116 SOLEDAD CANYON RD	SANTA CLARITA	91350 LOS ANGELES		34.41125	
	## 8915 SORENSEN AVENUE	SANTA FE SPRINGS	90670 LOS ANGELES		33.95882	
	## 12525 PARK AVENUE	SANTA FE SPRINGS	90670 LOS ANGELES	•	33.94083	
KELLY PIPE 60000424 STATE RESIBACKLOG ######		SANTA FE SPRINGS	90670 LOS ANGELES	301200	33.92636	
	## 9005 SORENSEN AVENUE	SANTA FE SPRINGS	90670 LOS ANGELES	300004	33.95796	
NEVILLE CF 19280515 STATE RESIDENTIFIED ######		SANTA FE SPRINGS	90670 LOS ANGELES	300102		
	## 13002 LOS NIETOS ROAD	SANTA FE SPRINGS	90670 LOS ANGELES		33.94605	
WASTE DIS 19490194 FEDERAL SICERTIFIED ######		SANTA FE SPRINGS	90670 LOS ANGELES	300166	33.9486	
	08 2231 MENDOCINO AVENUE	SANTA ROSA	95403 SONOMA		38.46181	
• •			94965 MARIN		37.8275	
FORT BARF 71000009 STATE RESIACTIVE ###### EL PUEBLO 44490005 STATE RESIBACKLOG ######	## 9 MILES NORTHWEST OF SAN FRANCISCO IN	SCOTTS VALLEY			37.05389	
			95066 SANTA CRUZ			
	86 SEAL BEACH BLVD AND WESTMINSTER AVE		90740 ORANGE		33.75889 0	-118.077
·	15 1 MCCLURE WAY - SITE 33, SEASIDE, CA 9395		93955 MONTEREY	202040		0
	83 SHORELINE&MARSH ADJ. TO CARQUINEZ STR		94802 CONTRA COSTA		38.05384	
SELMA TRE 10240051 FEDERAL S'ACTIVE - L/ 1/1/19		SELMA	93662 FRESNO		36.55723	
	85 135 COMMERCIAL DRIVE	SHAFTER	93263 KERN	,	35.49884	
SHAFTER A 15070029 STATE RESICERTIFIED 2/7/19		SHAFTER	93263 KERN	100130		
VALLEY PL/ 45340001 STATE RESICERTIFIED ######		SHASTA LAKE	96019 SHASTA		40.67722	
	## 2740-2760 JUNIPERO AVENUE	SIGNAL HILL	90806 LOS ANGELES		33.80708	
	## COVERS ALL OF CITY OF SOUTH EL MONTE A		91733 LOS ANGELES		34.05337	
	## BETWEEN HIGHWAY 60 AND THE MONTEBEL		91733 LOS ANGELES		34.03045	
	## 9316 ATLANTIC AVENUE	SOUTH GATE	90280 LOS ANGELES		33.94777	
FIRESTONE 70000165 STATE RESIACTIVE - L/ ######		SOUTH GATE	90280 LOS ANGELES		33.96036	-118.23
	## 2525 FIRESTONE BLVD	SOUTH GATE	90280 LOS ANGELES		33.95877	
	## 4600 FIRESTONE BOULEVARD	SOUTH GATE	90280 LOS ANGELES		33.95219	
	## 9301 RAYO AVE.	SOUTH GATE	90280 LOS ANGELES		33.94964	
SEAM MAS 60000483 FEDERAL S'ACTIVE ######	## 5211 SOUTHERN AVE.	SOUTH GATE	90280 LOS ANGELES		33.94623	
MARLEY C(39240014 STATE RESICERTIFIED ######	## 150 N SINCLAIR AVE	STOCKTON	95215 SAN JOAQUIN	100102	37.96879	-121.234
MCCORMI 39240001 FEDERAL S ACTIVE - LF 5/1/19	86 1214 W. WASHINGTON STREET	STOCKTON	95203 SAN JOAQUIN	100108		
STOCKTON 39420010 STATE RESIACTIVE - L######	## 2201 W. WASHINGTON STREET	STOCKTON	95201 SAN JOAQUIN	101662	37.94896	-121.357
CENTRAL E 3100003 STATE RESICERTIFIED ######	## OLD RIDGE ROAD AND EUREKA ROAD	SUTTER CREEK	95685 AMADOR	100449	38.38394	-120.803
TEMECULA 80001161 STATE RESIBACKLOG ######	## 5 MILES EAST OF DOWNTOWN TEMECULA	TEMECULA	92593 RIVERSIDE	401339	33.52917	-117.038
AMOCO CF 19290155 STATE RESIACTIVE 2/1/20	16 1225 WEST 196TH STREET	TORRANCE	90502 LOS ANGELES	401382	33.8535	-118.298
FREEMAN 60000835 STATE RESIACTIVE ######	## 2040 ARTESIA BOULEVARD	TORRANCE	90504 LOS ANGELES	401377	33.87166	-118.315
MOMIN LC 60001010 STATE RESIACTIVE ######	## 1918 ARTESIA BOULEVARD	TORRANCE	90504 LOS ANGELES	401470	33.8727	-118.312
MONTROS 19280024 FEDERAL S ACTIVE ######	## 20201 NORMANDIE AVENUE	TORRANCE	90502 LOS ANGELES	400100, 4	33.8477	-118.302
HALBERT'S 19240022 STATE RESIBACKLOG ######	## 2026 ABALONE AVENUE	TORRENCE	90501 LOS ANGELES		33.82722	-118.312
DEFENSE C 39970003 FEDERAL S ACTIVE - L/ 5/1/19	86 25600 S CHRISMAN RD	TRACY	95304 SAN JOAQUIN	100048	37.71446	-121.398
LAWRENCE 39730018 FEDERAL S ACTIVE 1/1/19	91 CORRAL HOLLOW ROAD	TRACY	94550 SAN JOAQUIN	200180	37.65518	-121.534
TRAVIS AFI 48970001 FEDERAL S'ACTIVE - L/ 1/1/19	90 5025 ACRES; 3 MILES EAST OF FAIRFIELD,CA	TRAVIS	94535 SOLANO	200208	38.26056	-121.944
OTH BRS T 60001244 STATE RESIACTIVE ######	## N 41.710423; W 121.178084	TULELAKE	96134 MODOC	102075	41.71042	-121.178
VALLEY W(50240001 FEDERAL S ACTIVE - L/ 1/1/19	83 2237 SOUTH GOLDEN STATE BLVD	TURLOCK	95380 STANISLAUS	100153	37.47217	-120.824

RED HILL N 60001226 STATE RESIACTIVE 2/1/2016 BETWEEN RANCHVIEW DRIVE & MCLEAN DI		92780 ORANGE		33.74736	
TUSTIN M/ 30970002 STATE RESIACTIVE - L/ 6/1/1986 NEWPORT FREEWAY AT EDINGER AVENUE		92710 ORANGE	,	33.71639	
TWENTY-N 36970007 STATE RESIACTIVE ####### 595,367 ACRES;5MI NO OF TWENTYNINE PA		92278 SAN BERNARDING		34.25028	-116
TWENTY-N 60001867 STATE RESIACTIVE ####### 595,367 ACRES;5MI NO OF TWENTYNINE PA		92278 SAN BERNARDING		34.25028	-116
COAST WC 23240013 FEDERAL S CERTIFIED ####### PLANT RD & TAYLOR DR	UKIAH	95482 MENDOCINO		39.11151	
PACIFIC ST. 1330031 STATE RESICERTIFIED ######## 35124 ALVARADO-NILES ROAD	UNION CITY	94587 ALAMEDA	200073	37.5844	-122.01
MARE ISLA 48330003 STATE RESIACTIVE - L/ 3/1/2003 900 WALNUT AVENUE, QUARTERS D	VALLEJO	94592 SOLANO	201383, 2		-122.27
MARE ISLA 48970002 STATE RESIACTIVE - L/ 5/1/1989 W END OF TENNESSEE STREET, MARE ISLAN		94590 SOLANO		38.08083	
MARE ISLA 48000004 STATE RESIACTIVE - L/ ######## 750 DUMP ROAD - PO BOX 2135	VALLEJO	94592 SOLANO	201437	38.0954	-122.27
SEPULVED, 19970013 MILITARY FACTIVE ####### 15900 VICTORY BLVD.	VAN NUYS	91406 LOS ANGELES	300307	34.18639	-118.479
EXIDE RESI 60002267 STATE RESIACTIVE ####### VARIOUS LOCATIONS IN THE COUNTY OF LO	S VARIOUS	90058 LOS ANGELES	900291	34.0051	-118.193
READY PRC 56750014 STATE RESIACTIVE ####### 89 PEKING STREET	VENTURA	93001 VENTURA	301405	34.2833	-119.306
VERNALIS I 80001178 MILITARY FACTIVE ####### 15 MIL SW OF PATTERSON	VERNALIS	95363 STANISLAUS	101972	37.39056	-121.397
AAD DISTR 19000031 STATE RESIACTIVE 1/1/2007 2306 E. 38TH STREET	VERNON	90058 LOS ANGELES	300461, 3	34.00779	-118.232
PECHINEY 60001187 STATE RESIACTIVE ######## 3200 FRUITLAND AVENUE	VERNON	90058 LOS ANGELES	301396, 3	33.99667	-118.211
SILVER PE# 80000037 MILITARY FACTIVE 4/8/2015	VICTORVILLE	SAN BERNARDING)	34.65139	-117.267
COUNTRY 60001054 STATE RESIBACKLOG 5/4/2015 2000 W. WHITENDALE	VISALIA	93277 TULARE	101996	36.30593	-119.313
FORMER V 60001053 STATE RESIBACKLOG 5/4/2015 2615 S. MOONEY BLVD.	VISALIA	93277 TULARE	101999	36.32626	-119.314
FORMER W 60001352 STATE RESIACTIVE 9/1/2010 4634 W. MINERAL KING AVENUE	VISALIA	93291 TULARE	102107	36.328	-119.342
COCUEN A FACTORE CTATE DECLACTIVE F /4 /4 00C COA4 AND CTOT WEST COCUEN AVENUE	\ //C A A	02204 THE ARE	100022	26 2411	-119.367
GOSHEN A 54270005 STATE RESIACTIVE 5/1/1986 6941 AND 6707 WEST GOSHEN AVENUE	VISALIA	93291 TULARE	100022	30.3411	-119.507
KAWEAH - 60001917 STATE RESIDENTIFIED ######## 11878 AVENUE 328	VISALIA VISALIA	93291 TULARE	100022	36.3411	-119.567
-,,,			102187		0
KAWEAH - 60001917 STATE RESICERTIFIED ######## 11878 AVENUE 328	VISALIA	93291 TULARE	102187 102000	0	0 -119.314
KAWEAH - 60001917 STATE RESICERTIFIED ####### 11878 AVENUE 328 LAMOUR'S 60001052 STATE RESIACTIVE ####### 2911 S. MOONEY BLVD.	VISALIA VISALIA	93291 TULARE 93277 TULARE	102187 102000	0 36.30492	0 -119.314 -119.316
KAWEAH - 60001917 STATE RESICERTIFIED ####### 11878 AVENUE 328 LAMOUR'S 60001052 STATE RESIACTIVE ####### 2911 S. MOONEY BLVD. MILLER'S C 60001050 STATE RESIACTIVE ####### 2235 W. WHITENDALE AVENUE	VISALIA VISALIA VISALIA	93291 TULARE 93277 TULARE 93277 TULARE	102187 102000 102001	0 36.30492 36.30562	0 -119.314 -119.316 -119.298
KAWEAH - 60001917 STATE RESICERTIFIED ######## 11878 AVENUE 328 LAMOUR'S 60001052 STATE RESIACTIVE ######## 2911 S. MOONEY BLVD. MILLER'S C 60001050 STATE RESIACTIVE ####### 2235 W. WHITENDALE AVENUE MILLERS D 60000242 STATE RESIBACKLOG 5/4/2015 110 NORTH WILLIS	VISALIA VISALIA VISALIA VISALIA	93291 TULARE 93277 TULARE 93277 TULARE 93291 TULARE	102187 102000 102001 102051	0 36.30492 36.30562 36.33046	0 -119.314 -119.316 -119.298
KAWEAH - 60001917 STATE RESICERTIFIED ######## 11878 AVENUE 328 LAMOUR'S 60001052 STATE RESIACTIVE ######## 2911 S. MOONEY BLVD. MILLER'S C 60001050 STATE RESIACTIVE ######## 2235 W. WHITENDALE AVENUE MILLERS D 60000242 STATE RESIBACKLOG 5/4/2015 110 NORTH WILLIS MISSION U 60000969 STATE RESIACTIVE ####### 520 E. MINERAL KING AVENUE ONE HOUF 60000236 STATE RESIACTIVE ######## 717 WEST MAIN STREET	VISALIA VISALIA VISALIA VISALIA VISALIA VISALIA	93291 TULARE 93277 TULARE 93277 TULARE 93291 TULARE 93292 TULARE 93291 TULARE	102187 102000 102001 102051 102049	0 36.30492 36.30562 36.33046 36.32746 36.32993	0 -119.314 -119.316 -119.298 -119.287
KAWEAH - 60001917 STATE RESICERTIFIED ######## 11878 AVENUE 328 LAMOUR'S 60001052 STATE RESIACTIVE ####### 2911 S. MOONEY BLVD. MILLER'S C 60001050 STATE RESIACTIVE ####### 2235 W. WHITENDALE AVENUE MILLERS D 60000242 STATE RESIBACKLOG 5/4/2015 110 NORTH WILLIS MISSION U 60000969 STATE RESIACTIVE ####### 520 E. MINERAL KING AVENUE	VISALIA VISALIA VISALIA VISALIA VISALIA	93291 TULARE 93277 TULARE 93277 TULARE 93291 TULARE 93292 TULARE	102187 102000 102001 102051 102049 N/A	0 36.30492 36.30562 36.33046 36.32746	0 -119.314 -119.316 -119.298 -119.287 -119.3 0
KAWEAH - 60001917 STATE RESICERTIFIED ######## 11878 AVENUE 328 LAMOUR'S 60001052 STATE RESIACTIVE ######## 2911 S. MOONEY BLVD. MILLER'S C 60001050 STATE RESIACTIVE ######## 2235 W. WHITENDALE AVENUE MILLERS D 60000242 STATE RESIBACKLOG 5/4/2015 110 NORTH WILLIS MISSION U 60000969 STATE RESIACTIVE ######## 520 E. MINERAL KING AVENUE ONE HOUF 60002277 STATE RESIACTIVE ######## 717 WEST MAIN STREET	VISALIA VISALIA VISALIA VISALIA VISALIA VISALIA VISALIA	93291 TULARE 93277 TULARE 93277 TULARE 93291 TULARE 93292 TULARE 93291 TULARE 93277 TULARE	102187 102000 102001 102051 102049 N/A 102050	0 36.30492 36.30562 36.33046 36.32746 36.32993 0	0 -119.314 -119.316 -119.298 -119.287 -119.3 0 -119.298
KAWEAH - 60001917 STATE RESICERTIFIED ######## 11878 AVENUE 328 LAMOUR'S 60001052 STATE RESIACTIVE ######## 2911 S. MOONEY BLVD. MILLER'S C 60001050 STATE RESIACTIVE ######## 2235 W. WHITENDALE AVENUE MILLERS D 60000242 STATE RESIBACKLOG 5/4/2015 110 NORTH WILLIS MISSION U 60000969 STATE RESIACTIVE ######## 520 E. MINERAL KING AVENUE ONE HOUF 60000236 STATE RESIACTIVE ######## 717 WEST MAIN STREET ONE HOUF 60002277 STATE RESIACTIVE ######## 1841 SOUTH MOONEY BOULEVARD PARAGON 60000240 STATE RESIACTIVE ######## 119 SOUTH WILLIS STREET SO CAL GA 54490015 STATE RESICERTIFIED ######## 300 NORTH TIPTON STREET	VISALIA	93291 TULARE 93277 TULARE 93277 TULARE 93291 TULARE 93292 TULARE 93291 TULARE 93277 TULARE 93291 TULARE 93291 TULARE	102187 102000 102001 102051 102049 N/A 102050 100277	0 36.30492 36.30562 36.33046 36.32746 36.32993 0 36.32955 36.33243	0 -119.314 -119.316 -119.298 -119.287 -119.3 0 -119.298 -119.285
KAWEAH - 60001917 STATE RESICERTIFIED ######## 11878 AVENUE 328 LAMOUR'S 60001052 STATE RESIACTIVE ######## 2911 S. MOONEY BLVD. MILLER'S C 60001050 STATE RESIACTIVE ######## 2235 W. WHITENDALE AVENUE MILLERS D 60000242 STATE RESIBACKLOG 5/4/2015 110 NORTH WILLIS MISSION U 60000969 STATE RESIACTIVE ######## 520 E. MINERAL KING AVENUE ONE HOUF 60000236 STATE RESIACTIVE ######## 717 WEST MAIN STREET ONE HOUF 60002277 STATE RESIACTIVE ######## 1841 SOUTH MOONEY BOULEVARD PARAGON 60000240 STATE RESIACTIVE ######## 119 SOUTH WILLIS STREET SO CAL GA 54490015 STATE RESIACTIVE ######## 300 NORTH TIPTON STREET VISALIA DF 60000403 STATE RESIACTIVE 8/4/2006 CENTRAL CITY AREA	VISALIA VISALIA VISALIA VISALIA VISALIA VISALIA VISALIA	93291 TULARE 93277 TULARE 93277 TULARE 93291 TULARE 93292 TULARE 93291 TULARE 93277 TULARE 93291 TULARE	102187 102000 102001 102051 102049 N/A 102050 100277 101808	0 36.30492 36.30562 36.33046 36.32746 36.32993 0 36.32955	0 -119.314 -119.316 -119.298 -119.287 -119.3 0 -119.298 -119.285
KAWEAH - 60001917 STATE RESICERTIFIED ######## 11878 AVENUE 328 LAMOUR'S 60001052 STATE RESIACTIVE ######## 2911 S. MOONEY BLVD. MILLER'S C 60001050 STATE RESIACTIVE ######## 2235 W. WHITENDALE AVENUE MILLERS D 60000242 STATE RESIBACKLOG 5/4/2015 110 NORTH WILLIS MISSION U 60000969 STATE RESIACTIVE ######## 520 E. MINERAL KING AVENUE ONE HOUF 60000236 STATE RESIACTIVE ######## 717 WEST MAIN STREET ONE HOUF 60002277 STATE RESIACTIVE ######## 1841 SOUTH MOONEY BOULEVARD PARAGON 60000240 STATE RESIACTIVE ######## 119 SOUTH WILLIS STREET SO CAL GA 54490015 STATE RESICERTIFIED ######## 300 NORTH TIPTON STREET VISALIA DF 60000403 STATE RESIACTIVE 8/4/2006 CENTRAL CITY AREA J H BAXTEF 47240001 FEDERAL S CERTIFIED ######## 422 MILL STREET	VISALIA	93291 TULARE 93277 TULARE 93277 TULARE 93291 TULARE 93292 TULARE 93291 TULARE 93277 TULARE 93277 TULARE 93277 TULARE 93277 TULARE 93277 TULARE 93277 TULARE	102187 102000 102001 102051 102049 N/A 102050 100277 101808 100016	0 36.30492 36.30562 36.33046 36.32746 36.32993 0 36.32955 36.3243 36.33028 41.43288	0 -119.314 -119.316 -119.298 -119.287 -119.3 0 -119.298 -119.285 -119.291 -122.37
KAWEAH - 60001917 STATE RESICERTIFIED ######## 11878 AVENUE 328 LAMOUR'S 60001052 STATE RESIACTIVE ######## 2911 S. MOONEY BLVD. MILLER'S C 60001050 STATE RESIACTIVE ######## 2235 W. WHITENDALE AVENUE MILLERS D 60000242 STATE RESIBACKLOG 5/4/2015 110 NORTH WILLIS MISSION U 60000969 STATE RESIACTIVE ######## 520 E. MINERAL KING AVENUE ONE HOUF 60000236 STATE RESIACTIVE ######## 1841 SOUTH MOONEY BOULEVARD PARAGON 60000240 STATE RESIACTIVE ######## 119 SOUTH WILLIS STREET SO CAL GA 54490015 STATE RESIACTIVE ######## 300 NORTH TIPTON STREET VISALIA DF 60000403 STATE RESIACTIVE 8/4/2006 CENTRAL CITY AREA J H BAXTEF 47240001 FEDERAL S CERTIFIED ######## 422 MILL STREET BKK SANIT. 19490005 STATE RESIACTIVE - L/ ######## 2210 SOUTH AZUZA AVENUE	VISALIA WEED WEST COVINA	93291 TULARE 93277 TULARE 93277 TULARE 93291 TULARE 93292 TULARE 93291 TULARE 93277 TULARE 93291 TULARE 93291 TULARE 93277 TULARE	102187 102000 102001 102051 102049 N/A 102050 100277 101808 100016 300012	0 36.30492 36.30562 36.33046 36.32746 36.32993 0 36.32955 36.3243 36.33028 41.43288 34.0363	0 -119.314 -119.316 -119.298 -119.287 -119.3 0 -119.298 -119.285 -119.291
KAWEAH - 60001917 STATE RESICERTIFIED ######## 11878 AVENUE 328 LAMOUR'S 60001052 STATE RESIACTIVE ######## 2911 S. MOONEY BLVD. MILLER'S C 60001050 STATE RESIACTIVE ######## 2235 W. WHITENDALE AVENUE MILLERS D 60000242 STATE RESIBACKLOG 5/4/2015 110 NORTH WILLIS MISSION U 60000969 STATE RESIACTIVE ######## 520 E. MINERAL KING AVENUE ONE HOUF 60000236 STATE RESIACTIVE ######## 1841 SOUTH MOONEY BOULEVARD PARAGON 60000240 STATE RESIACTIVE ######## 119 SOUTH WILLIS STREET SO CAL GA 54490015 STATE RESIACTIVE ######## 300 NORTH TIPTON STREET VISALIA DF 60000403 STATE RESIACTIVE ######## 422 MILL STREET BKK SANIT. 19490005 STATE RESIACTIVE - L/ ######## 2210 SOUTH AZUZA AVENUE CAPITOL PI 57340006 STATE RESIBACKLOG ######### 319 3RD STREET	VISALIA WEED WEST COVINA WEST SACRAMENTO	93291 TULARE 93277 TULARE 93277 TULARE 93291 TULARE 93292 TULARE 93291 TULARE 93291 TULARE 93291 TULARE 93291 TULARE 93297 TULARE 93277 TULARE 93277 TULARE 96094 SISKIYOU 91792 LOS ANGELES 95605 YOLO	102187 102000 102001 102051 102049 N/A 102050 100277 101808 100016 300012 100327	0 36.30492 36.30562 36.33246 36.32993 0 36.32955 36.33243 36.33028 41.43288 34.0363 38.58784	0 -119.314 -119.316 -119.298 -119.287 -119.3 0 -119.298 -119.285 -119.291 -122.37 -117.913 -121.51
KAWEAH - 60001917 STATE RESICERTIFIED ######## 11878 AVENUE 328 LAMOUR'S 60001052 STATE RESIACTIVE ######## 2911 S. MOONEY BLVD. MILLER'S C 60001050 STATE RESIACTIVE ######## 2235 W. WHITENDALE AVENUE MILLERS D 60000242 STATE RESIBACKLOG 5/4/2015 110 NORTH WILLIS MISSION U 60000969 STATE RESIACTIVE ######## 520 E. MINERAL KING AVENUE ONE HOUF 60000236 STATE RESIACTIVE ######## 1841 SOUTH MOONEY BOULEVARD PARAGON 60000240 STATE RESIACTIVE ######## 119 SOUTH WILLIS STREET SO CAL GA 54490015 STATE RESIACTIVE ######## 300 NORTH TIPTON STREET VISALIA DF 60000403 STATE RESIACTIVE 8/4/2006 CENTRAL CITY AREA J H BAXTEF 47240001 FEDERAL S CERTIFIED ######## 422 MILL STREET BKK SANIT. 19490005 STATE RESIACTIVE - L/ ######## 2210 SOUTH AZUZA AVENUE	VISALIA WEED WEST COVINA	93291 TULARE 93277 TULARE 93277 TULARE 93291 TULARE 93292 TULARE 93291 TULARE 93277 TULARE 93291 TULARE 93291 TULARE 93277 TULARE 93277 TULARE 93277 TULARE 96094 SISKIYOU 91792 LOS ANGELES	102187 102000 102001 102051 102049 N/A 102050 100277 101808 100016 300012 100327 300223, 3	0 36.30492 36.30562 36.33046 36.32746 36.32993 0 36.32955 36.33243 36.33028 41.43288 34.0363 38.58784 33.96957	0 -119.314 -119.316 -119.298 -119.287 -119.3 0 -119.298 -119.295 -119.291 -122.37 -117.913 -121.51 -118.044
KAWEAH - 60001917 STATE RESICERTIFIED ######## 11878 AVENUE 328 LAMOUR'S 60001052 STATE RESIACTIVE ######## 2911 S. MOONEY BLVD. MILLER'S C 60001050 STATE RESIACTIVE ######## 2235 W. WHITENDALE AVENUE MILLERS D 60000242 STATE RESIBACKLOG 5/4/2015 110 NORTH WILLIS MISSION U 60000969 STATE RESIACTIVE ######## 520 E. MINERAL KING AVENUE ONE HOUF 60000236 STATE RESIACTIVE ######## 1841 SOUTH MOONEY BOULEVARD PARAGON 60000240 STATE RESIACTIVE ######## 119 SOUTH WILLIS STREET SO CAL GA 54490015 STATE RESIACTIVE ######## 300 NORTH TIPTON STREET VISALIA DF 60000403 STATE RESIACTIVE ######## 422 MILL STREET BKK SANIT. 19490005 STATE RESIACTIVE - L/ ######## 2210 SOUTH AZUZA AVENUE CAPITOL PI 57340006 STATE RESIBACKLOG ######### 319 3RD STREET OMEGA CF. 19280436 FEDERAL S ACTIVE ######## 12504 WHITTIER BLVD BASIN BY-F 19290278 STATE RESIACTIVE 1/1/1985 3031 EAST I STREET	VISALIA WEED WEST COVINA WEST SACRAMENTO WHITTIER WILMINGTON	93291 TULARE 93277 TULARE 93277 TULARE 93291 TULARE 93292 TULARE 93291 TULARE 93291 TULARE 93291 TULARE 93291 TULARE 93297 TULARE 93277 TULARE 93277 TULARE 93277 TULARE 96094 SISKIYOU 91792 LOS ANGELES 95605 YOLO 90602 LOS ANGELES 90744 LOS ANGELES	102187 102000 102001 102051 102049 N/A 102050 100277 101808 100016 300012 100327 300223, 3 400015, 4	0 36.30492 36.30562 36.33046 36.32746 36.32993 0 36.32955 36.33243 36.33028 41.43288 34.0363 38.58784 33.96957 33.78396	0 -119.314 -119.316 -119.298 -119.287 -119.3 0 -119.298 -119.285 -119.291 -122.37 -117.913 -121.51 -118.044 -118.226
KAWEAH - 60001917 STATE RESICERTIFIED ######## 11878 AVENUE 328 LAMOUR'S 60001052 STATE RESIACTIVE ######## 2911 S. MOONEY BLVD. MILLER'S C 60001050 STATE RESIACTIVE ######## 2235 W. WHITENDALE AVENUE MILLERS D 60000242 STATE RESIBACKLOG 5/4/2015 110 NORTH WILLIS MISSION U 60000969 STATE RESIACTIVE ####### 520 E. MINERAL KING AVENUE ONE HOUF 60000236 STATE RESIACTIVE ####### 1841 SOUTH MOONEY BOULEVARD PARAGON 6000240 STATE RESIACTIVE ######## 19 SOUTH WILLIS STREET SO CAL GA 54490015 STATE RESIACTIVE ####### 300 NORTH TIPTON STREET VISALIA DF 60000403 STATE RESIACTIVE ######## 422 MILL STREET BKK SANIT. 19490005 STATE RESIACTIVE - L/ ######## 2210 SOUTH AZUZA AVENUE CAPITOL PI 57340006 STATE RESIBACKLOG ######## 12504 WHITTIER BLVD BASIN BY-F 19290278 STATE RESIACTIVE 1/1/1985 3031 EAST I STREET TCL CORP., 19510060 STATE RESICERTIFIED ######## 420 N HENRY FORD AVE	VISALIA WEED WEST COVINA WEST SACRAMENTO WHITTIER WILMINGTON	93291 TULARE 93277 TULARE 93277 TULARE 93291 TULARE 93292 TULARE 93291 TULARE 93291 TULARE 93291 TULARE 93291 TULARE 93297 TULARE 93277 TULARE 93277 TULARE 93277 TULARE 96094 SISKIYOU 91792 LOS ANGELES 95605 YOLO 90602 LOS ANGELES 90744 LOS ANGELES	102187 102000 102001 102051 102049 N/A 102050 100277 101808 100016 300012 100327 300223, 3i 400015, 4i 400431	0 36.30492 36.30562 36.33046 36.32746 36.32993 0 36.32955 36.33243 36.33028 41.43288 34.0363 38.58784 33.96957 33.78396 33.77496	0 -119.314 -119.316 -119.298 -119.287 -119.3 0 -119.298 -119.285 -119.291 -122.37 -117.913 -121.51 -118.044 -118.226 -118.241
KAWEAH - 60001917 STATE RESICERTIFIED ######## 11878 AVENUE 328 LAMOUR'S 60001052 STATE RESIACTIVE ######## 2911 S. MOONEY BLVD. MILLER'S C 60001050 STATE RESIACTIVE ######## 2235 W. WHITENDALE AVENUE MILLERS D 60000242 STATE RESIBACKLOG 5/4/2015 110 NORTH WILLIS MISSION U 60000969 STATE RESIACTIVE ####### 520 E. MINERAL KING AVENUE ONE HOUF 60002277 STATE RESIACTIVE ####### 1841 SOUTH MOONEY BOULEVARD PARAGON 6000240 STATE RESIACTIVE ####### 119 SOUTH WILLIS STREET SO CAL GA 54490015 STATE RESIACTIVE ####### 300 NORTH TIPTON STREET VISALIA DF 60000403 STATE RESIACTIVE ####### 422 MILL STREET BKK SANIT. 19490005 STATE RESIACTIVE - L/ ####### 422 MILL STREET BKK SANIT. 19490005 STATE RESIACTIVE - L/ ######## 319 3RD STREET OMEGA CH 19280436 FEDERAL S ACTIVE ######## 12504 WHITTIER BLVD BASIN BY-F 19290278 STATE RESIACTIVE 1/1/1985 3031 EAST I STREET TCL CORP., 19510060 STATE RESICERTIFIED ######## 420 N HENRY FORD AVE TCL CORPC 19510062 STATE RESICERTIFIED 8/2/1995 420 N HENRY FORD AVE	VISALIA WEED WEST COVINA WEST SACRAMENTO WHITTIER WILMINGTON WILMINGTON	93291 TULARE 93277 TULARE 93277 TULARE 93291 TULARE 93292 TULARE 93291 TULARE 93291 TULARE 93291 TULARE 93291 TULARE 93297 TULARE 93277 TULARE 93277 TULARE 93277 TULARE 96094 SISKIYOU 91792 LOS ANGELES 95605 YOLO 90602 LOS ANGELES 90744 LOS ANGELES 90744 LOS ANGELES	102187 102000 102001 102051 102049 N/A 102050 100277 101808 100016 300012 100327 300223, 34 400015, 44 400431 400154	0 36.30492 36.30562 36.33046 36.32746 36.32993 0 36.32955 36.33243 36.33028 41.43288 34.0363 38.58784 33.96957 33.78396 33.77496 33.77496	0 -119.314 -119.316 -119.298 -119.287 -119.3 0 -119.298 -119.285 -119.291 -122.37 -117.913 -121.51 -118.044 -118.226 -118.241 -118.241
KAWEAH - 60001917 STATE RESICERTIFIED ######## 11878 AVENUE 328 LAMOUR'S 60001052 STATE RESIACTIVE ######## 2911 S. MOONEY BLVD. MILLER'S C 60001050 STATE RESIACTIVE ######## 2235 W. WHITENDALE AVENUE MILLERS D 60000242 STATE RESIBACKLOG 5/4/2015 110 NORTH WILLIS MISSION U 60000969 STATE RESIACTIVE ####### 520 E. MINERAL KING AVENUE ONE HOUF 60002277 STATE RESIACTIVE ####### 1841 SOUTH MOONEY BOULEVARD PARAGON 60000240 STATE RESIACTIVE ####### 19 SOUTH WILLIS STREET SO CAL GA 54490015 STATE RESIACTIVE ####### 300 NORTH TIPTON STREET VISALIA DF 60000403 STATE RESIACTIVE ####### 422 MILL STREET BKK SANIT. 19490005 STATE RESIACTIVE - L/ ####### 422 MILL STREET BKK SANIT. 19490005 STATE RESIACTIVE - L/ ####### 319 3RD STREET OMEGA CH 19280436 FEDERAL S ACTIVE ######## 12504 WHITTIER BLVD BASIN BY-F 19290278 STATE RESIACTIVE 1/1/1985 3031 EAST I STREET TCL CORP., 19510060 STATE RESICERTIFIED ######## 420 N HENRY FORD AVE TCL CORPC 19510062 STATE RESICERTIFIED 8/2/1995 420 N HENRY FORD AVE ECODYNE I 49240001 STATE RESIACTIVE 5/1/1986 930 SHILOH RD	VISALIA WEED WEST COVINA WEST SACRAMENTO WHITTIER WILMINGTON WILMINGTON WILMINGTON WILMINGTON	93291 TULARE 93277 TULARE 93277 TULARE 93291 TULARE 93292 TULARE 93291 TULARE 93291 TULARE 93291 TULARE 93291 TULARE 93297 TULARE 93277 TULARE 93277 TULARE 93277 TULARE 96094 SISKIYOU 91792 LOS ANGELES 95605 YOLO 90602 LOS ANGELES 90744 LOS ANGELES 90744 LOS ANGELES 90744 LOS ANGELES 90744 LOS ANGELES	102187 102000 102001 102051 102049 N/A 102050 100277 101808 100016 300012 100327 300223, 3 400015, 4 400431 400154 200028	0 36.30492 36.30562 36.33046 36.32746 36.32993 0 36.32955 36.33243 36.33028 41.43288 34.0363 38.58784 33.96957 33.78396 33.77496 33.77496 38.52576	0 -119.314 -119.316 -119.298 -119.287 -119.3 0 -119.298 -119.285 -119.291 -122.37 -117.913 -121.51 -118.044 -118.226 -118.241 -118.241 -122.794
KAWEAH - 60001917 STATE RESICERTIFIED ######## 11878 AVENUE 328 LAMOUR'S 60001052 STATE RESIACTIVE ######## 2911 S. MOONEY BLVD. MILLER'S C 60001050 STATE RESIACTIVE ######## 2235 W. WHITENDALE AVENUE MILLERS D 60000242 STATE RESIBACKLOG 5/4/2015 110 NORTH WILLIS MISSION U 60000969 STATE RESIACTIVE ####### 520 E. MINERAL KING AVENUE ONE HOUF 60002277 STATE RESIACTIVE ####### 1841 SOUTH MOONEY BOULEVARD PARAGON 6000240 STATE RESIACTIVE ####### 119 SOUTH WILLIS STREET SO CAL GA 54490015 STATE RESIACTIVE ####### 300 NORTH TIPTON STREET VISALIA DF 60000403 STATE RESIACTIVE ####### 422 MILL STREET BKK SANIT. 19490005 STATE RESIACTIVE - L/ ####### 422 MILL STREET BKK SANIT. 19490005 STATE RESIACTIVE - L/ ######## 319 3RD STREET OMEGA CH 19280436 FEDERAL S ACTIVE ######## 12504 WHITTIER BLVD BASIN BY-F 19290278 STATE RESIACTIVE 1/1/1985 3031 EAST I STREET TCL CORP., 19510060 STATE RESICERTIFIED ######## 420 N HENRY FORD AVE TCL CORPC 19510062 STATE RESICERTIFIED 8/2/1995 420 N HENRY FORD AVE	VISALIA WEED WEST COVINA WEST SACRAMENTO WHITTIER WILMINGTON WILMINGTON WILMINGTON WILMINGTON	93291 TULARE 93277 TULARE 93277 TULARE 93291 TULARE 93292 TULARE 93291 TULARE 93291 TULARE 93291 TULARE 93291 TULARE 93297 TULARE 93277 TULARE 93277 TULARE 93277 TULARE 96094 SISKIYOU 91792 LOS ANGELES 95605 YOLO 90602 LOS ANGELES 90744 LOS ANGELES 90744 LOS ANGELES	102187 102000 102001 102051 102049 N/A 102050 100277 101808 100016 300012 100327 300223, 3 400015, 4 400431 400154 200028	0 36.30492 36.30562 36.33046 36.32746 36.32993 0 36.32955 36.33243 36.33028 41.43288 34.0363 38.58784 33.96957 33.78396 33.77496 33.77496 38.52576 34.92323	0 -119.314 -119.316 -119.298 -119.287 -119.3 0 -119.298 -119.285 -119.291 -122.37 -117.913 -121.51 -118.044 -118.226 -118.241 -118.241 -122.794

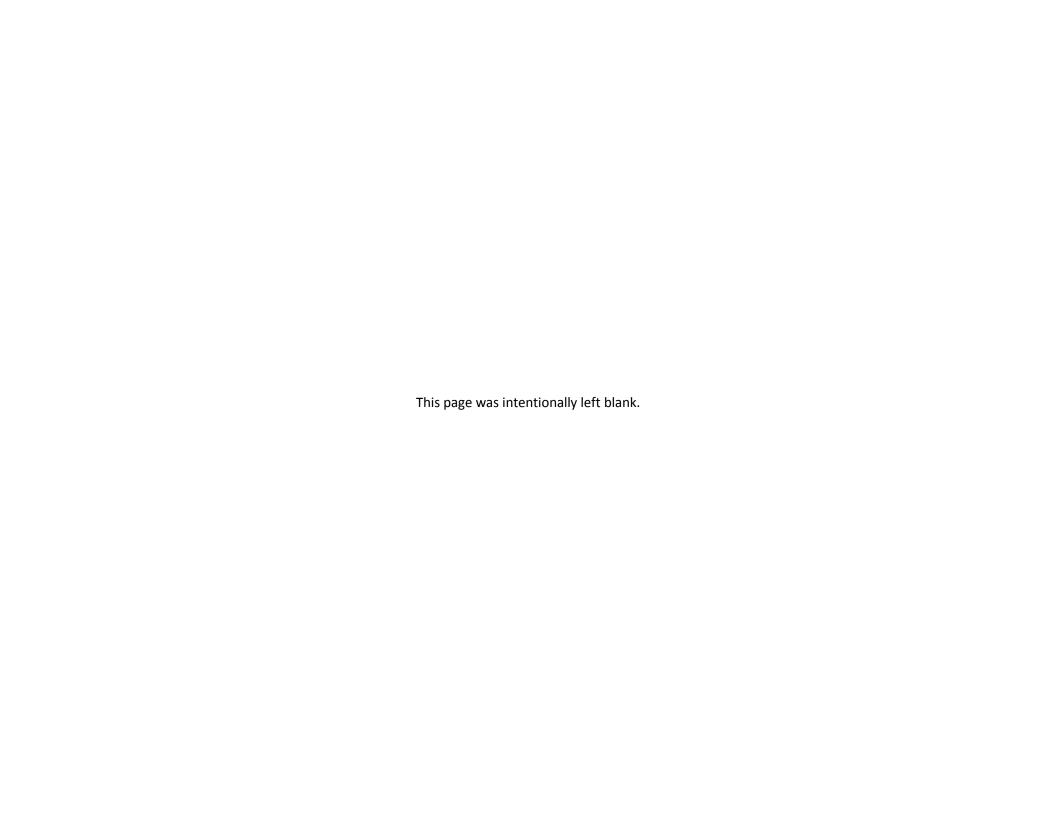
SITE NAME	GLOBAL ID	FAC ID	STATUS	ADDRESS	CITY
ARCO AM/PM		99046913	1	7325 SIERRA AVE	FONTANA
BIG 5 SPORTING GOODS		89020103	3	7351 MCGUIRE AVE	FONTANA
CHEVRON USA #9956		90021378	3	12576 BASELINE RD	RANCHO CUCAMONGA
CI-RC FIRE PROTN DIST #5		91025960)	11108 BANYAN ST	RANCHO CUCAMONGA
CIRCLE K #5244		88016785	5	16125 BASELINE AVE	FONTANA
COSTCO GASOLINE		FA001024	18	16505 SIERRA LAKES PARKWAY	FONTANA
ETIWANDA FOREST FIRE STA	T T0607100017		COMPLETED - CASE CLOSED	6696 ETIWANDA AVE	RANCHO CUCAMONGA
ETIWANDA GENERATING STA	NTSL208183873		COMPLETED - CASE CLOSED	ETIWANDA	RANCHO CUCAMONGA
FORMER GAS STATION	T0607108153		COMPLETED - CASE CLOSED	16173 HIGHLAND AVENUE	FONTANA
FORMER UNION 76 STATION	T0607175710		COMPLETED - CASE CLOSED	120 BASELINE RD.WEST	RIALTO
KAISER STEEL CORPORATION	SLT8R1484121		COMPLETED - CASE CLOSED	9400 CHERRY AVENUE	FONTANA
LANDFILL,MID-VALLEY	L10002260603		OPEN - OPERATING	2390 N ALDER AVE	RIALTO
MOBIL OIL SS#11-GEB		91024273	3	6539 MILLIKEN AVE	RANCHO CUCAMONGA
MOBIL SS #18-003		86009076	5	10477 LEMON AVE	RANCHO CUCAMONGA
SC-CHAFFEY COLLEGE		87012665	5	5885 HAVEN AVE	RANCHO CUCAMONGA
SC-ETIWANDA SCH MAINT YI)	95038039	9	6925 ETIWANDA AVE	RANCHO CUCAMONGA
STERLING CAN	SLT8R1864120		COMPLETED - CASE CLOSED	8939 ETIWANDA AVENUE	RANCHO CUCAMONGA
TAMCO	SLT8R1914124		COMPLETED - CASE CLOSED	12459 ARROW HIGHWAY	ETIWANDA
TEXACO STAR MART		98046658	3	11289 BASELINE RD	RANCHO CUCAMONGA
TOSCO SS # 31294-7304		90020515	5	6411 HAVEN AVE	RANCHO CUCAMONGA
VERIZON/ETIWANDA C O		86008876	ō	6322 EAST AVE	RANCHO CUCAMONGA

SITES IDENTIFIED WITH WASTE CONSTITUENTS ABOVE HAZARDOUS WASTE LEVELS OUTSIDE THE WASTE MANAGEMENT UNIT

		REGION	SWAT 1	WASTE DISCHARGER	SOLID WASTE ID			
COUNTY	CITY			SYSTEM NO.	NO.	WASTE MANAGEMENT UNIT NAME	FACILITY NAME	AGENCY NAME
DEL NORTE	CRESCENT CITY	1	2	1A880520NSL-01		DEL NORTE COUNTY- PESTICIDE STORAGE	DEL NORTE PESTICIDE STORAGE AR	DEL NORTE, COUNTY OF
CONTRA COSTA	PITTSBURG	2	1	2 071059002-02	07-A1-0001	U.S. STEEL CORPPITTSBURG SITE LA	WDR-USS-POSCO	USS-POSCO
SOLANO	VALLEJO	2	1	2 482011003-01	48-AA-0008	US NAVY MARE ISLAND SANITARY LANDFILL	WDR-NAVAL SHIPYARD/CLASS I LAN	MARE ISLAND NAVAL SHIPYARD
CONTRA COSTA	RICHMOND	2	3	2 071007002-01		CHEVRON CHEMICAL COMPANY-OLD SITES	WDR-ORTHO DIV-RICHMOND PLANT	CHEVRON CHEMICAL COMPANY
MONTEREY	FORT ORD (Marina)	3	1	3 270301004-01	27-AA-0015	FORT ORD LANDFILL	SANITARY LANDFILL	U.S. ARMY, FORT ORD
SANTA BARBARA	LOMPOC	3	3	3 420305001-01	42-AA-0017	LOMPOC CITY LANDFILL	SOLID WASTE DISPOSAL SITE	LOMPOC CITY
LOS ANGELES	MONTEREY PARK	4	1	4B190332001-01	19-AM-0001	OPERATING INDUSTRIES LANDFILL	OPERATING INDUSTRIES, INC.	OPERATING INDUSTRIES, INC.
TULARE	WOODLAKE	5F	1	5D540300010-01	54-AA-0007	TULARE COUNTY-WOODLAKE LANDFILL	WOODLAKE SWDS	TULARE, COUNTY OF
FRESNO	FRESNO	5F	2	5D100300001-01		MCKINLEY AVE. YARD	T.H. AGRICULTURE AND NUTRITION	NORTH AMERICAN PHILLIPS
KINGS	CORCORAN	5F	2	5D160302001-01	16-AA-0011	KINGS COUNTY-CORCORAN LANDFILL	CORCORAN SWDS	KINGS COUNTY WASTE MGMT AUTH.
FRESNO	FRESNO	5F	3	5D100319001-01	10-AA-0013	ORANGE AVENUE DISPOSAL COMPANY	ORANGE AVENUE LANDFILL	ORANGE AVENUE DISP CO. INC
TULARE	EXETER	5F	3	5D540300003-01	54-AA-0002	TULARE COUNTY-EXETER DISPOSAL SITE	EXETER SWDS	TULARE, COUNTY OF
MERCED	ATWATER	5F	4	5C240115001-01		ATWATER CITY	BERT CRANE ROAD LANDFILL	ATWATER, CITY OF
FRESNO	FOWLER	5F	5	5D100325N01-01		FOWLER CITY	FOWLER CITY LANDFILL (OLD)	FOWLER, CITY OF
BUTTE	OROVILLE	5R	2	5A042005001-01		KOPPERS COMPANY-OROVILLE SITE	KOPPERS WOOD PRESERVING ISW	KOPPERS INDUSTRIES INC.
BUTTE	CHICO	5R	4	5A040302N01-01		CHICO CITY BURN DUMP	HUMBOLDT ROAD LANDFILL	CHICO, CITY OF
SACRAMENTO	SACRAMENTO	5S	1	5A340700003-01	34-AA-0008	US AIR FORCE-MCCLELLAN AFB LANDFILL	CLASS III SITE 8 (CLOSURE)	US AIR FORCE-MCCLELLAN AFB
SACRAMENTO	MATHER (Rancho Cordova)	5S	2	5A340700001-01		US AIR FORCE-MATHER FIELD LANDFILL	MATHER AFB ENVIRONMENTAL MGMT	US AIR FORCE – MATHER AFB
SACRAMENTO	SACRAMENTO	5S	3	5B342000N01-01		SACRAMENTO ARMY DEPOT	SACRAMENTO ARMY DEPOT	U.S. ARMY
SAN JOAQUIN	STOCKTON	5S	3	5 390002NUR-01	39-AA-0006	US NAVY COMMUNICATIONS LANDFILL	U.S.N. COMMUNICATION STA. LANDF	U.S. NAVY COMMUNICATIONS
SAN JOAQUIN	FRENCH CAMP	5S	3	5 390003NUR-01		US ARMY-SHARPE ARMY DEPOT	US ARMY-SHARPE ARMY DEPOT	US ARMY
SAN JOAQUIN	TRACY	5S	5	5 390006NUR-01		SITE 300 (OTHER 39 WMUS)	LAWRENCE LIVERMORE LAB	LAWRENCE LIVERMORE LABS
INYO	KEELER	6V	1	6B142000041-01	14-AA-0008	US TUNGSTEN OWENS LAKE LANDFILL	OWENS LAKE LANDFILL	UMETCO MINERALS CORPORATION
ORANGE	FULLERTON	8	1	8300002NUR-01		MCCOLL SITE	MCCOLL SLUDGE DISPOSAL SITE	TOXIC SUBSTANCES CONTROL DIVIS
RIVERSIDE	RIVERSIDE	8	1	8 330325001-01		STRINGFELLOW QUARRY ACID PITS	STATE OF CALIFORNIA-STRINGFELLOW	TOXIC PROGRAM MANAGEMENT SECT

SITE NAME	GLOBAL ID	FAC ID	STATUS	ADDRESS	CITY
ARCO AM/PM		99046913	1	7325 SIERRA AVE	FONTANA
BIG 5 SPORTING GOODS		89020103	3	7351 MCGUIRE AVE	FONTANA
CHEVRON USA #9956		90021378	3	12576 BASELINE RD	RANCHO CUCAMONGA
CI-RC FIRE PROTN DIST #5		91025960)	11108 BANYAN ST	RANCHO CUCAMONGA
CIRCLE K #5244		88016785	5	16125 BASELINE AVE	FONTANA
COSTCO GASOLINE		FA001024	18	16505 SIERRA LAKES PARKWAY	FONTANA
ETIWANDA FOREST FIRE STA	T T0607100017		COMPLETED - CASE CLOSED	6696 ETIWANDA AVE	RANCHO CUCAMONGA
ETIWANDA GENERATING STA	NTSL208183873		COMPLETED - CASE CLOSED	ETIWANDA	RANCHO CUCAMONGA
FORMER GAS STATION	T0607108153		COMPLETED - CASE CLOSED	16173 HIGHLAND AVENUE	FONTANA
FORMER UNION 76 STATION	T0607175710		COMPLETED - CASE CLOSED	120 BASELINE RD.WEST	RIALTO
KAISER STEEL CORPORATION	SLT8R1484121		COMPLETED - CASE CLOSED	9400 CHERRY AVENUE	FONTANA
LANDFILL,MID-VALLEY	L10002260603		OPEN - OPERATING	2390 N ALDER AVE	RIALTO
MOBIL OIL SS#11-GEB		91024273	3	6539 MILLIKEN AVE	RANCHO CUCAMONGA
MOBIL SS #18-003		86009076	5	10477 LEMON AVE	RANCHO CUCAMONGA
SC-CHAFFEY COLLEGE		87012665	5	5885 HAVEN AVE	RANCHO CUCAMONGA
SC-ETIWANDA SCH MAINT YI)	95038039	9	6925 ETIWANDA AVE	RANCHO CUCAMONGA
STERLING CAN	SLT8R1864120		COMPLETED - CASE CLOSED	8939 ETIWANDA AVENUE	RANCHO CUCAMONGA
TAMCO	SLT8R1914124		COMPLETED - CASE CLOSED	12459 ARROW HIGHWAY	ETIWANDA
TEXACO STAR MART		98046658	3	11289 BASELINE RD	RANCHO CUCAMONGA
TOSCO SS # 31294-7304		90020515	5	6411 HAVEN AVE	RANCHO CUCAMONGA
VERIZON/ETIWANDA C O		86008876	ō	6322 EAST AVE	RANCHO CUCAMONGA

ENVIROSTOR PROJECT NAME	STATUS	PROJECT TYPE	ADDRESS	CITY
36010052 ARBORS ELEMENTARY SCHOOL	No Further Action	School Investigation	Victoria Park Lane/Base Line Road	Rancho Cucamonga
60000064 EAST BANYAN SCHOOL	No Action Required	School Investigation	13639 Banyan Street	Rancho Cucamonga
36010021 ETIWANDA EARLY EDUCATION CENTER	No Further Action	School Investigation	6084 Etiwanda Avenue	Etiwanda
36010011 ETIWANDA ELEMENTARY SCHOOL	Certified	School Cleanup	7128-7192 Etiwanda Avenue	Rancho Cucamonga
36010049 ETIWANDA HIGH SCHOOL	No Further Action	School Investigation	13500 Victoria Avenue	Etiwanda
36010054 HIGH SCHOOL NO. 9	No Further Action	School Investigation	San Sevaine Road/Walnut Avenue	Fontana
36010066 LYTLE CREEK HIGH SCHOOL NO. 4 ADDI	T No Action Required	School Investigation	Lytle Creek Road/Summit Avenue	Fontana
36010041 WEST BANYON ALTERNATIVE SCHOOL	No Further Action	School Investigation	6012 East Ave	Rancho Cucamonga
36010029 WEST BANYON SCHOOL	No Further Action	School Investigation	13149 Summit Avenue	Rancho Cucamonga



Appendix E WATER QUALITY TECHNICAL MEMORANDUM





MEMORANDUM

To: Mr. Jeff Kim, P.E.

City of Fontana

Department of Engineering

8353 Sierra Avenue Fontana, CA 92335

From: Mrs. Laura Larsen, P.E. and Ms. Nora Jans, LEED AP

Date: June 1, 2016

Subject: San Sevaine Trail Project Water Quality Technical Memorandum

1.0 Introduction

The San Sevaine Trail is the only north-south Class I bike path in the Inland Empire. The San Sevaine Trail is a fragmented, incomplete trail system, and it currently contains only one complete trail segment (1.4 miles). The trail in its entirety is planned to be 11 miles long at buildout, extending from Wilson Avenue in Rancho Cucamonga and Duncan Canyon Road in Fontana, south to the power line easement at Country Village Golf Course in Jurupa Valley. The San Sevaine Creek channel right-of-way, owned by the San Bernardino County Flood Control District, is a defining feature of the area. This channel corridor maintenance road will provide the primary spine for the San Sevaine Trail Connectivity Network through San Bernardino County, and the trail network will be comprised of three separate segments: North, Central, and South segments. The proposed project is part of the North segment. This assessment covers the following:

- 1) An evaluation of the potential impacts related to implementing the project;
- 2) A description of the site, regional and local hydrology, floodplains, groundwater resources, and soils/erosion potential;
- 3) Identification of the applicable requirements of the federal Clean Water Act (CWA), state water quality regulations, state requirements under the federal CWA, beneficial uses, groundwater and surface water quality objectives, and a review of the Section 303(d) Impaired Waters List; and
- 4) Identification of the potential stormwater quality mitigation measures (best management practices or BMPs) that may be needed based on the water quality requirements applicable to the project.

1.1. Site Description

The proposed project consists of the expansion of the existing Class I San Sevaine Trail, Segment 2 by adding a new 1.25-mile trail segment within the cities of Fontana and Rancho Cucamonga. The proposed project would involve converting an existing maintenance road, which currently runs parallel to the San Sevaine flood control channel, into a paved trail, and filling the gaps in the new linear path. The new trail segment would provide a direct connection to the existing 21-mile Pacific Electric Inland Empire Trail at the proposed project's southern terminus, approximately 0.25 miles south of Victoria Street. The Pacific Electric Inland Empire Trail, in turn, would provide connectivity to the 30-mile Santa Ana River Trail. This regional trail connection is a key component of the proposed project, as it is anticipated to enhance non-motorized access in the area and encourage increased trail use for both recreation and transportation.

1.1.1. Project Location

The proposed project is located within the cities of Fontana and Rancho Cucamonga in southwestern San Bernardino County. The proposed project limits are from the Pacific Electric Inland Empire Trail in the City of Fontana to Banyan Street in the City of Rancho Cucamonga. Of the total 1.25-mile proposed project alignment length, approximately 0.30 miles are within Fontana's city limits and approximately 0.95 miles are within Rancho Cucamonga's city limits. Figure 1 shows the vicinity of the proposed project, and Figure 2 identifies the proposed project's location.

1.1.2. Existing Site Conditions

The proposed project site is located within a disturbed dirt and partially paved flood control maintenance road that parallels the San Sevaine flood control channel. The areas immediately surrounding the maintenance road consist largely of undeveloped native habitat areas, two freeways (Interstate [I] 210 and I-15), the San Sevaine flood control channel, and two urbanized residential areas. The flood control channel is an approximately 25-foot wide concrete box channel. The channel is fenced from surrounding areas and incorporates several undercrossings where it intersects with city streets and the freeways.

The proposed project site is adjacent to dense residential neighborhoods, as well as several community facilities, including the Etiwanda Creek Community and Dog Park located 0.5 miles west of the proposed project's northerly limits; a skating rink located 0.65 miles southwest of the proposed project's southerly limits; and four public high schools containing a combined student population of approximately 5,900 students within a 2-mile radius of the proposed project site. In addition, the Victoria Street Park and Ride is located immediately east of the southerly portion of the proposed project site, from which approximately 1,000 residents connect to the Metrolink station daily.

The proposed project site is within an area designated by the City of Fontana General Plan to have the potential to house sensitive species including raptors and shrikes, and there is mapped critical habitat for the San Bernardino kangaroo rat (SBKR) along a portion of the trail alignment, between I-210 and Banyon Street.

1.1.3. Proposed Improvements

Implementation of the proposed project would involve the construction of a 1.25-mile-long new asphalt trail for use by bicyclists and pedestrians within the San Sevaine flood control channel right-of-way. The trail alignment would run parallel to the existing flood control channel as it would utilize the existing flood control maintenance road that currently runs parallel to the flood control channel. The new segment of the San Sevaine Trail is planned to be a continuous 12-foot-wide asphalt path with 4-foot decomposed granite shoulders, and would include four granite block benches, LED-lighted bollards, directional and interpretive trail signage, a chain link fence, potable water connection, and striping and pavement legend to alert users of the bike lane.

The proposed trail would be completely separate from major roadways and would be classified as a Class I bicycle and pedestrian path. However, the trail alignment would cross two freeway underpass structures (I-210 and I-15) and one major roadway (Victoria Street), as described below.

<u>I-210 and I-15</u>: The existing flat surface on the west side of the San Sevaine channel would be paved to cross under the I-15 abutment wall. In addition, under bridge clearances on both the south and northbound I-15 undercrossing along the channel, excavation and construction of retaining walls would be required. This work would be coordinated with California Department of Transportation (Caltrans) District 8, including the procurement of encroachment permits.

<u>Victoria Street:</u> A signalized mid-block crossing would be installed to connect south across Victoria Street to the east bank of the San Sevaine channel. This would include two options; one would follow the trail along the west side of the channel, and the other would follow the trail along the east side of the channel south, to connect with the existing Pacific Electric Inland Empire Trail. To increase trail user safety, a road diet may also be a component of the proposed crossing design at Victoria Street, which would involve a potential roadway lane width reduction or re-channelization and installation of a pedestrian safety island.



Figure 1: Vicinity Map



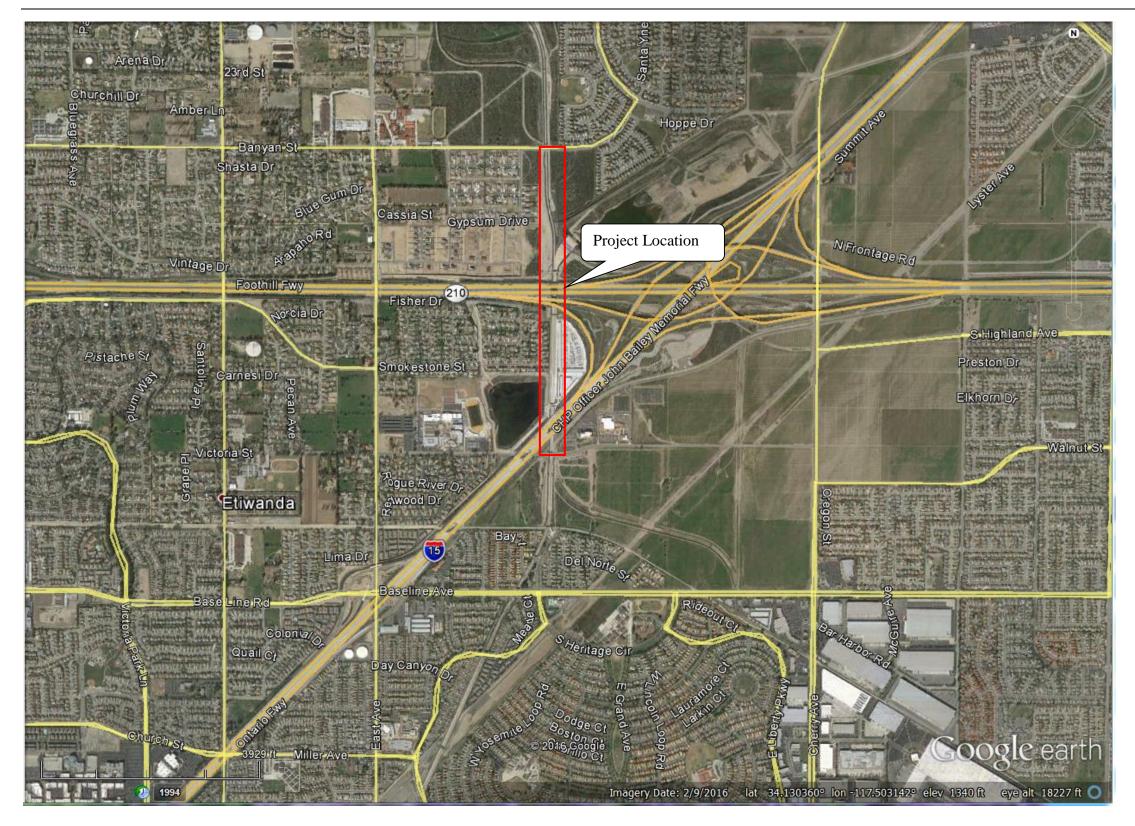
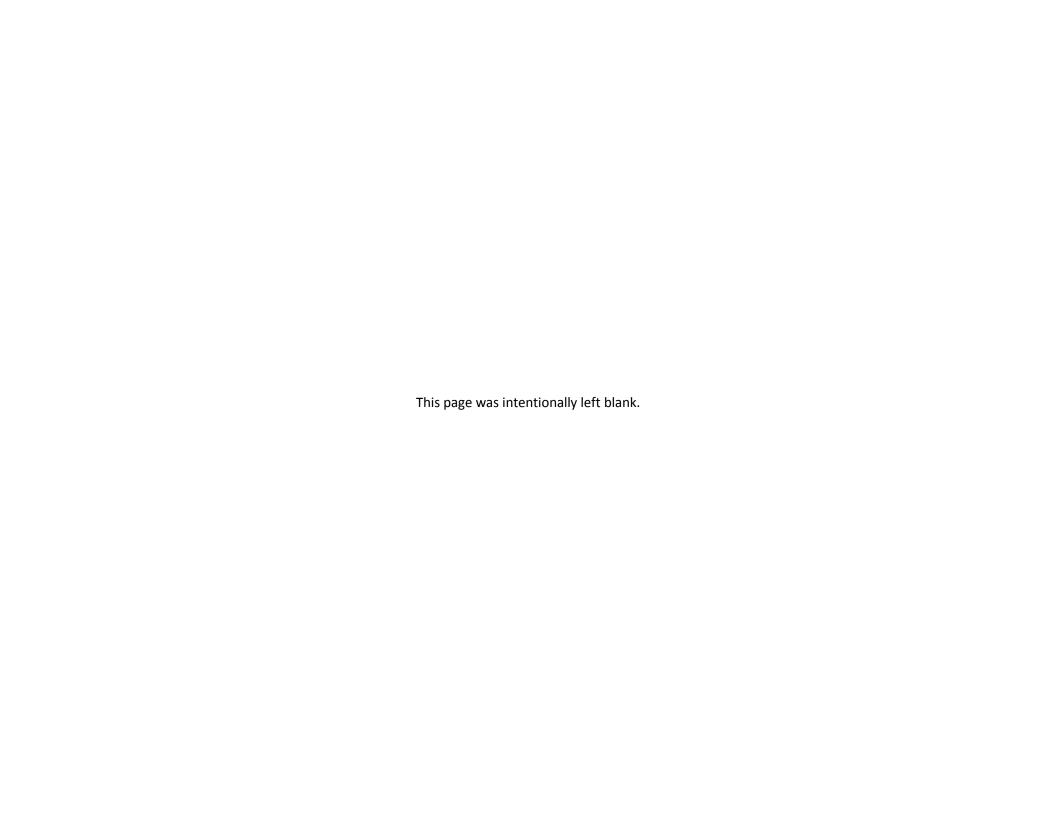


Figure 2: Project Location Map



2.0 General Conditions

2.1.1. Existing Drainage Conditions and Facilities

The existing topography within the proposed project boundary gently slopes from the north to the south, along the Etiwanda Creek Channel and San Sevaine Channel. These channels are located within the Santa Ana River watershed, and discharge to Reach 3 in the City of Jurupa Valley, approximately 10 miles south of the proposed project. The surface drainage within the proposed project area just south of Banyan Street to the meeting of San Sevaine and Etiwanda Creek channels flows freely until it is captured by an underground storm drain system. Throughout the rest of the proposed project area, surface drainage sheet flows into the channels and pervious areas.

2.1.2. Regional and Local Hydrology

The proposed project is located in the San Bernardino County portion of the Santa Ana River Watershed, which is located in the Santa Ana Regional Water Quality Control Board's (RWQCB) jurisdiction. Runoff in the region flows from the San Gabriel Mountains north of the proposed project and south to the Santa Ana River. The Santa Ana River Reach 3 flows southwest to Prado Dam in Riverside County. Rainfall at a weather station in the City of Ontario, located approximately nine miles southwest of the proposed project, averages 15 inches per year (National Oceanic and Atmospheric Association National Climatic Data Center). The rainfall erosivity factor (R factor) was estimated using the United States Environmental Protection Agency (U.S. EPA) Rainfall Erosivity Factor Calculator. The R factor for the area is estimated to be 31.85. This factor represents the total storm kinetic energy times the maximum 30-minute intensity and is directly proportional to the soil loss, when factors other than rainfall are held constant. Since the rainfall erosivity factor determined for the proposed project is more than 5.0, the proposed project is not eligible for a waiver from the CGP's requirements.

2.1.3. Floodplains

The proposed project is located in areas designated as the following:

- Zone X areas of 0.2 percent annual chance of flood
- Zone AE areas of 1 percent annual chance of flood using detailed methodologies
- Zone A areas of 1 percent annual chance of flood using approximate methodologies

Source: Federal Emergency Management Agency (FEMA), Flood Insurance Rate Maps (FIRM), September 26, 2014, Map Numbers 06071C7895J and 06071C8635J

The proposed project will not impact or encroach on the 100-year floodplain or floodway.

2.1.4. Groundwater Resources

The proposed project is located within the Chino Subbasin of the Upper Santa Ana Valley Groundwater Basin, which covers an area of approximately 240 square miles and is located in the South Coast Hydrologic Region. The Upper Santa Ana Valley Groundwater Basin underlies an inland plain in southwestern San Bernardino County. Data collected from a well in the vicinity of the proposed project indicates that groundwater depth is 581 feet in 2015 (http://www.water.ca.gov). The treatment BMPs selected for the proposed project will consider groundwater conditions.

2.1.5. Soils/Erosion Potential

The Soil Erodibility Factor (K factor) for the proposed project area is 0.05 according to Natural Resources Conservation Service (NRCS) soil survey data. Generally, this equates to a low potential for erosion within the proposed project area characterized by particles resistant to detachment. However, this is a planning-level tool, so a detailed site-specific survey is still required for design-level analysis.

2.2. Water Quality/Clean Water Act Requirements

2.2.1. Overview

The CWA, as amended by the Water Quality Act of 1987, is the major federal legislation governing water quality, which was enacted "to restore and maintain the chemical, physical, and biological integrity of the nation's waters." Important sections of the CWA include:

- Sections 303 and 304 provide for water quality standards, criteria, and guidelines; and
- Section 402 establishes the NPDES system, a permitting system for the discharge of any pollutant (except for dredge or fill material) into waters of the United States. This permitting program is administered by the California RWQCBs.

The permits associated with these sections of the CWA typically include additional site-specific requirements. The desktop survey indicated that no permits are anticipated under the CWA to develop this site.

2.2.2. Beneficial Uses and Water Quality Objectives

The RWQCB is responsible for the protection of beneficial uses of water resources within its jurisdiction and uses planning, permitting, and enforcement authorities to meet this responsibility. Every water body within the jurisdiction of the Santa Ana RWQCB is designated a set of beneficial uses that are protected by appropriate water quality objectives and identified in the Santa Ana RWQCB's *Water Quality Control Plan for the Santa Ana River Basin* (Basin Plan). Per the Basin Plan, this proposed project drains to the Chino-North "maximum benefit" Groundwater Basin, and San Sevaine Channel. The Basin Plan does not identify beneficial uses for San Sevaine Channel. However, drainage from this project will also discharge to East Etiwanda Creek. The Basin Plan classifies this water body as the Valley Reach of East Etiwanda Creek in the San Gabriel Subarea. San Sevaine Channel and East Etiwanda Creek Channel meet near the intersection of I-15 and Victoria Street and flow adjacently south through the proposed project area. The table below summarizes the beneficial uses of the receiving waterbodies as identified in the Basin Plan.

Beneficial Use Type	Groundwater Beneficial Uses	East Etiwanda Creek Beneficial Uses
Municipal and Domestic Supply (MUN) – Includes uses of water for		
community, military, or individual water supply systems including, but not	✓	✓
limited to, drinking water supply.		
Agricultural Supply (AGR) – Includes uses of water for farming, horticulture,		
or ranching including, but not limited to, irrigation, stock watering, or	✓	-
support of vegetation for range grazing.		
Industrial Service Supply (IND) – Includes uses of water for industrial		
activities that do not depend primarily on water quality including, but not	./	
limited to, mining, cooling water supply, hydraulic conveyance, gravel	•	-
washing, fire protection, or oil well re-pressurization.		
Industrial Process Supply (PROC) – Includes uses of water for industrial		
activities that depend primarily on water quality. These uses may include,	./	./
but are not limited to, process water supply and all uses of water related to	•	•
product manufacture or food preparation.		
Groundwater Recharge (GWR) – Includes uses of water for natural or		
artificial recharge of groundwater for purposes that include, but are not		./
limited to, future extraction, maintaining water quality or halting saltwater	-	•
intrusion into freshwater aquifers.		

Beneficial Use Type	Groundwater Beneficial Uses	East Etiwanda Creek Beneficial Uses
Contact Water Recreation (REC-1) – Includes uses of water for recreational		
activities involving body contact with water, where ingestion of water is		
reasonably possible. These uses include, but are not limited to, swimming,	-	✓
wading, water-skiing, skin and SCUBA diving, surfing, white water activities,		
fishing, or use of natural hot springs.		
Non-contact Water Recreation (REC-2) – Includes the uses of water for		
recreational activities involving proximity to water, but not normally		
involving proximity to water, but not normally involving body contact with		
water, where ingestion of water is reasonably possible. These uses include,	-	✓
but are not limited to, picnicking, sunbathing, hiking, beachcombing,		
camping, boating, tidepool and marine life study, hunting, sightseeing, or		
aesthetic enjoyment in conjunction with the above activities.		
Cold Freshwater Habitat (COLD) – Includes uses of water that support		
coldwater ecosystems that may include, but are not limited to,	_	✓
preservations and enhancement of aquatic habitats, vegetation, fish and	-	, , ,
wildlife, including invertebrates.		
Wildlife Habitat (WILD) – Includes uses of water that support wildlife		
habitats that may include, but are not limited to, the preservation and		√
enhancement of vegetation and prey species used by waterfowl and other	-	,
wildlife.		
Rare, Threatened, or Endangered Species (RARE) – Includes uses of water		
that support the habitats necessary for the survival and successful		√
maintenance of plant or animal species designated under state or federal	-	•
law as rare, threatened or endangered.		

2.2.3. Impaired Waterbodies

Section 303 of the CWA requires that the state adopt water quality objectives for surface waters. The Basin Plan contains water quality objectives that are considered necessary to protect the specific beneficial uses it identifies for surface waters. Section 303(d) of the CWA specifically requires the state to develop a list of impaired water bodies and Total Maximum Daily Loads (TMDLs), plans to determine the maximum allowable pollutant load that a water body can receive and continue to meet the designated beneficial uses. East Etiwanda Creek and San Sevaine Channel are not listed on the 2012 Integrated Report (Clean Water Act Section 303(d) List/305(b) Report) nor has a TMDL been developed in either water body.

2.3. NPDES Permit

2.3.1. NPDES Municipal Permit Requirements

The proposed project is located within the urban Municipal Separate Storm Sewer System (MS4) NPDES permitted area (NPDES Order R8-2010-0036) in San Bernardino County. Drainage from the proposed project drains to channels in the San Bernardino County Flood Control District's jurisdiction, which is the principal permittee in the NPDES permit. A Municipal Stormwater Management Plan (MSWMP) was developed for the San Bernardino County Flood Control District, the County of San Bernardino and the 18 incorporated cities (collectively called "permittees"), including the cities of Fontana and Rancho Cucamonga. It describes the responsibilities, procedures, and practices the permittees use to protect water quality by reducing or eliminating pollutants discharged from storm drainage systems they own or operate, including the selection and implementation of source control and treatment control BMPs. The proposed project will meet the requirements of the MSWMP where technically feasible.

The County of San Bernardino Stormwater Program's *Technical Guidance Document for Water Quality Management Plans* was developed to assist project proponents with developing Water Quality Management Plans that comply with the NPDES Permit requirements applicable to private or public development activities. It requires priority projects, such as this one, to implement where feasible and applicable, site design Low Impact Development (LID), source control, and treatment control BMPs because it will add or replace 5,000 or more square feet in impervious surface on an already-developed site, which is anticipated to increase flows and pollutant loading to downstream facilities. The proposed project includes approximately 105,600 square feet of new impervious area. Structural treatment control and non-structural source control BMPs should be incorporated into the proposed project to collect and treat the stormwater runoff volume from an 85th percentile 24-hour runoff event, as determined by the County of San Bernardino's 85th Percentile Precipitation Isopluvial Map, or the stormwater runoff flow from a rainfall intensity of 0.2 inch of rainfall per hour, as stated in the requirements of NPDES Order Number R8-2010-0036. In addition, Low Impact Development (LID) BMPs will be included in the proposed project's design where technically feasible. During the proposed project design phase, the increase in flows and pollutant loading will be addressed through the hydrology and Water Quality Management Plan analyses.

2.3.2. Construction General Permit

The General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Construction General Permit and/or CGP), Order 2009-0009-DWQ, requires coverage for any construction project disturbing more than one acre of land, for any size parcel that is part of a larger common plan of development, or for any site that the Santa Ana RWQCB requires coverage. The CGP generally requires the following:

- 1. Assessment of the Site Risk (Risk Level 1, 2, 3, from low risk to high risk)
- 2. Enrollment under the CGP through the State Water Resource Control Board (SWRCB)
- 3. Development and implementation of a Storm Water Pollution Prevention Plan (SWPPP)
- 4. Sampling of stormwater and potential sampling of receiving water (depending on project risk)
- 5. Reporting requirements

Based on the information currently available and if the CGP applies to the proposed project, the Site Risk for this proposed project is anticipated to be low, which means visual monitoring is required and effluent monitoring may be conducted as necessary.

2.4. Best Management Practices

2.4.1. Post-Construction BMPs and Runoff Reduction Measures

Post construction (structural and non-structural) BMPs and runoff reduction measures applicable to the proposed project site may include, but are not limited to the following:

- Implement minimum BMPs as applicable to the proposed project
- Site design BMPs
- Preservation of existing flow patterns
- Preservation of drainage density
- Infiltration BMPs (where technically feasible)
- Biotreatment BMPs (where technically feasible)

2.4.2. Temporary Construction BMPs

Temporary construction BMPs applicable to the proposed project site may include, but are not limited to the following:

- Site Management BMPs
- Non-stormwater BMPs (control of non-stormwater discharges)
- Erosion Control BMPs
 - Implement wind erosion controls
 - o Provide effective soil cover for inactive areas
 - Limit use of plastic materials
 - o Ensure soil loss during each phase is equivalent or less than preconstruction soil loss
- Sediment Control BMPs
 - o Effective perimeter controls
 - Stabilize construction entrances/exits
 - o Implement appropriate erosion control in conjunction with sediment control
 - o Linear slope controls
 - Access Road controls

2.5. Regulatory Requirement Summary

The table below summarizes the regulatory requirements that must be met to construct this proposed project.

Regulatory	Mitigation to Address Requirement
Requirement	
Municipal NPDES Permit	Design and install site design, structural treatment control BMPs, and LID BMPs (if feasible) to address anticipated pollutants. Conduct geotechnical investigations to determine current groundwater conditions, and consider the results when evaluating structural treatment control BMPs. Evaluate during the proposed project design phase, through the hydrology and Water Quality Management Plan analyses.
Construction General Permit	Develop and implement a SWPPP. Implement temporary erosion and sediment control BMPs during the construction of the proposed project. Implement requirements of the Statewide Construction General Permit.
Temporary Construction BMPs	Temporary BMPs such as stabilized construction entrances/exits, erosion control blankets, and other minimum construction BMPs will be implemented consistent with the SWPPP.

3.0 References

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- California Regional Water Quality Control Board, Santa Ana Region, Waste Discharge Requirements for the San Bernardino County Flood Control District, the County of San Bernardino, and the Incorporated Cities of San Bernardino within the Santa Ana Region Area-wide Urban Storm Water Runoff Management Program, Order Number R8-2010-0036, NPDES Number CAS618036, January 29, 2010.
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- United States Department of Agriculture, Natural Resources Conservation Service, Web Soil Survey data, accessed on May 18, 2016 via their website: http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm
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