

Appendix A
CaEEMod Analysis

Ohanesian Residential Development - San Joaquin Valley Unified APCD Air District, Annual

Ohanesian Residential Development
San Joaquin Valley Unified APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	200.00	Dwelling Unit	64.94	360,000.00	634

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	45
Climate Zone	7			Operational Year	2023

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Table Name	Column Name	Default Value	New Value
tblWoodstoves	NumberCatalytic	64.94	0.00
tblWoodstoves	NumberNoncatalytic	64.94	0.00

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0484	0.4722	0.3294	6.0000e-004	1.8000e-003	0.0233	0.0251	4.8000e-004	0.0216	0.0221	0.0000	52.5604	52.5604	0.0144	0.0000	52.9203
2022	0.3929	3.9455	3.0926	6.4200e-003	0.8775	0.1758	1.0532	0.4069	0.1625	0.5695	0.0000	563.9822	563.9822	0.1593	0.0000	567.9649
2023	0.2415	2.1093	2.3591	4.9100e-003	0.0929	0.0917	0.1846	0.0251	0.0863	0.1114	0.0000	432.1515	432.1515	0.0767	0.0000	434.0700
2024	0.2278	1.9986	2.3487	4.9200e-003	0.0936	0.0810	0.1747	0.0253	0.0762	0.1015	0.0000	432.6894	432.6894	0.0768	0.0000	434.6101
2025	0.2114	1.8603	2.3120	4.8700e-003	0.0933	0.0695	0.1628	0.0252	0.0654	0.0906	0.0000	428.3359	428.3359	0.0761	0.0000	430.2375
2026	0.2084	1.8458	2.2931	4.8200e-003	0.0921	0.0693	0.1614	0.0249	0.0652	0.0900	0.0000	423.5862	423.5862	0.0762	0.0000	425.4901
2027	3.4206	0.3491	0.6025	9.9000e-004	8.4500e-003	0.0168	0.0253	2.2500e-003	0.0157	0.0179	0.0000	86.5045	86.5045	0.0236	0.0000	87.0948
Maximum	3.4206	3.9455	3.0926	6.4200e-003	0.8775	0.1758	1.0532	0.4069	0.1625	0.5695	0.0000	563.9822	563.9822	0.1593	0.0000	567.9649

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2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0484	0.4722	0.3294	6.0000e-004	1.8000e-003	0.0233	0.0251	4.8000e-004	0.0216	0.0221	0.0000	52.5603	52.5603	0.0144	0.0000	52.9202
2022	0.3929	3.9455	3.0926	6.4200e-003	0.8775	0.1758	1.0532	0.4069	0.1625	0.5695	0.0000	563.9816	563.9816	0.1593	0.0000	567.9643
2023	0.2415	2.1093	2.3591	4.9100e-003	0.0929	0.0917	0.1846	0.0251	0.0863	0.1114	0.0000	432.1511	432.1511	0.0767	0.0000	434.0696
2024	0.2278	1.9986	2.3487	4.9200e-003	0.0936	0.0810	0.1747	0.0253	0.0762	0.1015	0.0000	432.6890	432.6890	0.0768	0.0000	434.6098
2025	0.2114	1.8603	2.3120	4.8700e-003	0.0933	0.0695	0.1628	0.0252	0.0654	0.0906	0.0000	428.3355	428.3355	0.0761	0.0000	430.2371
2026	0.2084	1.8458	2.2931	4.8200e-003	0.0921	0.0693	0.1614	0.0249	0.0652	0.0900	0.0000	423.5858	423.5858	0.0762	0.0000	425.4897
2027	3.4206	0.3491	0.6025	9.9000e-004	8.4500e-003	0.0168	0.0253	2.2500e-003	0.0157	0.0179	0.0000	86.5044	86.5044	0.0236	0.0000	87.0947
Maximum	3.4206	3.9455	3.0926	6.4200e-003	0.8775	0.1758	1.0532	0.4069	0.1625	0.5695	0.0000	563.9816	563.9816	0.1593	0.0000	567.9643

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	11-22-2021	2-21-2022	1.0243	1.0243
2	2-22-2022	5-21-2022	1.2091	1.2091
3	5-22-2022	8-21-2022	1.3995	1.3995
4	8-22-2022	11-21-2022	0.9240	0.9240

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5	11-22-2022	2-21-2023	0.6224	0.6224
6	2-22-2023	5-21-2023	0.5752	0.5752
7	5-22-2023	8-21-2023	0.5944	0.5944
8	8-22-2023	11-21-2023	0.5947	0.5947
9	11-22-2023	2-21-2024	0.5748	0.5748
10	2-22-2024	5-21-2024	0.5467	0.5467
11	5-22-2024	8-21-2024	0.5586	0.5586
12	8-22-2024	11-21-2024	0.5589	0.5589
13	11-22-2024	2-21-2025	0.5383	0.5383
14	2-22-2025	5-21-2025	0.5050	0.5050
15	5-22-2025	8-21-2025	0.5217	0.5217
16	8-22-2025	11-21-2025	0.5221	0.5221
17	11-22-2025	2-21-2026	0.5216	0.5216
18	2-22-2026	5-21-2026	0.5037	0.5037
19	5-22-2026	8-21-2026	0.5205	0.5205
20	8-22-2026	11-21-2026	0.5208	0.5208
21	11-22-2026	2-21-2027	0.3906	0.3906
22	2-22-2027	5-21-2027	1.5327	1.5327
23	5-22-2027	8-21-2027	2.0583	2.0583
		Highest	2.0583	2.0583

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.7974	0.0919	1.5172	5.6000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	89.0672	89.0672	3.9900e-003	1.5900e-003	89.6404
Energy	0.0278	0.2372	0.1009	1.5100e-003		0.0192	0.0192		0.0192	0.0192	0.0000	274.6497	274.6497	5.2600e-003	5.0400e-003	276.2818
Mobile	0.5687	5.5521	6.1318	0.0329	2.0872	0.0193	2.1065	0.5612	0.0181	0.5793	0.0000	3,059.3015	3,059.3015	0.1552	0.0000	3,063.1808
Waste						0.0000	0.0000		0.0000	0.0000	48.4215	0.0000	48.4215	2.8616	0.0000	119.9621
Water						0.0000	0.0000		0.0000	0.0000	4.1341	0.0000	4.1341	0.4246	0.0100	17.7370
Total	2.3938	5.8812	7.7499	0.0350	2.0872	0.0527	2.1399	0.5612	0.0515	0.6127	52.5555	3,423.0184	3,475.5740	3.4507	0.0167	3,566.8021

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.7974	0.0919	1.5172	5.6000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	89.0672	89.0672	3.9900e-003	1.5900e-003	89.6404
Energy	0.0278	0.2372	0.1009	1.5100e-003		0.0192	0.0192		0.0192	0.0192	0.0000	274.6497	274.6497	5.2600e-003	5.0400e-003	276.2818
Mobile	0.5687	5.5521	6.1318	0.0329	2.0872	0.0193	2.1065	0.5612	0.0181	0.5793	0.0000	3,059.3015	3,059.3015	0.1552	0.0000	3,063.1808
Waste						0.0000	0.0000		0.0000	0.0000	48.4215	0.0000	48.4215	2.8616	0.0000	119.9621
Water						0.0000	0.0000		0.0000	0.0000	4.1341	0.0000	4.1341	0.4246	0.0100	17.7370
Total	2.3938	5.8812	7.7499	0.0350	2.0872	0.0527	2.1399	0.5612	0.0515	0.6127	52.5555	3,423.0184	3,475.5740	3.4507	0.0167	3,566.8021

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

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/22/2021	2/25/2022	5	70	
2	Site Preparation	Site Preparation	2/26/2022	4/22/2022	5	40	
3	Grading	Grading	4/23/2022	9/23/2022	5	110	
4	Building Construction	Building Construction	9/24/2022	12/25/2026	5	1110	
5	Paving	Paving	12/26/2026	4/9/2027	5	75	
6	Architectural Coating	Architectural Coating	4/10/2027	7/23/2027	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 275

Acres of Paving: 0

Residential Indoor: 729,000; Residential Outdoor: 243,000; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	72.00	21.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601
Total	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601

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3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8000e-004	5.7000e-004	5.9500e-003	2.0000e-005	1.8000e-003	1.0000e-005	1.8100e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.5592	1.5592	4.0000e-005	0.0000	1.5602
Total	8.8000e-004	5.7000e-004	5.9500e-003	2.0000e-005	1.8000e-003	1.0000e-005	1.8100e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.5592	1.5592	4.0000e-005	0.0000	1.5602

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600
Total	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600

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3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8000e-004	5.7000e-004	5.9500e-003	2.0000e-005	1.8000e-003	1.0000e-005	1.8100e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.5592	1.5592	4.0000e-005	0.0000	1.5602
Total	8.8000e-004	5.7000e-004	5.9500e-003	2.0000e-005	1.8000e-003	1.0000e-005	1.8100e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.5592	1.5592	4.0000e-005	0.0000	1.5602

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0528	0.5144	0.4119	7.8000e-004		0.0249	0.0249		0.0231	0.0231	0.0000	67.9805	67.9805	0.0191	0.0000	68.4578
Total	0.0528	0.5144	0.4119	7.8000e-004		0.0249	0.0249		0.0231	0.0231	0.0000	67.9805	67.9805	0.0191	0.0000	68.4578

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3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0800e-003	6.8000e-004	7.2300e-003	2.0000e-005	2.4000e-003	2.0000e-005	2.4100e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	2.0046	2.0046	5.0000e-005	0.0000	2.0059
Total	1.0800e-003	6.8000e-004	7.2300e-003	2.0000e-005	2.4000e-003	2.0000e-005	2.4100e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	2.0046	2.0046	5.0000e-005	0.0000	2.0059

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0528	0.5144	0.4119	7.8000e-004		0.0249	0.0249		0.0231	0.0231	0.0000	67.9804	67.9804	0.0191	0.0000	68.4578
Total	0.0528	0.5144	0.4119	7.8000e-004		0.0249	0.0249		0.0231	0.0231	0.0000	67.9804	67.9804	0.0191	0.0000	68.4578

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3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0800e-003	6.8000e-004	7.2300e-003	2.0000e-005	2.4000e-003	2.0000e-005	2.4100e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	2.0046	2.0046	5.0000e-005	0.0000	2.0059
Total	1.0800e-003	6.8000e-004	7.2300e-003	2.0000e-005	2.4000e-003	2.0000e-005	2.4100e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	2.0046	2.0046	5.0000e-005	0.0000	2.0059

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3613	0.0000	0.3613	0.1986	0.0000	0.1986	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0634	0.6617	0.3940	7.6000e-004		0.0323	0.0323		0.0297	0.0297	0.0000	66.8788	66.8788	0.0216	0.0000	67.4195
Total	0.0634	0.6617	0.3940	7.6000e-004	0.3613	0.0323	0.3936	0.1986	0.0297	0.2283	0.0000	66.8788	66.8788	0.0216	0.0000	67.4195

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3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-003	8.2000e-004	8.6800e-003	3.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.4056	2.4056	6.0000e-005	0.0000	2.4070
Total	1.3000e-003	8.2000e-004	8.6800e-003	3.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.4056	2.4056	6.0000e-005	0.0000	2.4070

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3613	0.0000	0.3613	0.1986	0.0000	0.1986	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0634	0.6617	0.3940	7.6000e-004		0.0323	0.0323		0.0297	0.0297	0.0000	66.8787	66.8787	0.0216	0.0000	67.4195
Total	0.0634	0.6617	0.3940	7.6000e-004	0.3613	0.0323	0.3936	0.1986	0.0297	0.2283	0.0000	66.8787	66.8787	0.0216	0.0000	67.4195

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3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-003	8.2000e-004	8.6800e-003	3.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.4056	2.4056	6.0000e-005	0.0000	2.4070
Total	1.3000e-003	8.2000e-004	8.6800e-003	3.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.4056	2.4056	6.0000e-005	0.0000	2.4070

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4770	0.0000	0.4770	0.1978	0.0000	0.1978	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1994	2.1364	1.5973	3.4100e-003		0.0899	0.0899		0.0827	0.0827	0.0000	299.9403	299.9403	0.0970	0.0000	302.3655
Total	0.1994	2.1364	1.5973	3.4100e-003	0.4770	0.0899	0.5670	0.1978	0.0827	0.2805	0.0000	299.9403	299.9403	0.0970	0.0000	302.3655

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3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9700e-003	2.5100e-003	0.0265	8.0000e-005	8.7900e-003	6.0000e-005	8.8500e-003	2.3400e-003	5.0000e-005	2.3900e-003	0.0000	7.3503	7.3503	1.8000e-004	0.0000	7.3548
Total	3.9700e-003	2.5100e-003	0.0265	8.0000e-005	8.7900e-003	6.0000e-005	8.8500e-003	2.3400e-003	5.0000e-005	2.3900e-003	0.0000	7.3503	7.3503	1.8000e-004	0.0000	7.3548

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4770	0.0000	0.4770	0.1978	0.0000	0.1978	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1994	2.1364	1.5973	3.4100e-003		0.0899	0.0899		0.0827	0.0827	0.0000	299.9399	299.9399	0.0970	0.0000	302.3651
Total	0.1994	2.1364	1.5973	3.4100e-003	0.4770	0.0899	0.5670	0.1978	0.0827	0.2805	0.0000	299.9399	299.9399	0.0970	0.0000	302.3651

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3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9700e-003	2.5100e-003	0.0265	8.0000e-005	8.7900e-003	6.0000e-005	8.8500e-003	2.3400e-003	5.0000e-005	2.3900e-003	0.0000	7.3503	7.3503	1.8000e-004	0.0000	7.3548
Total	3.9700e-003	2.5100e-003	0.0265	8.0000e-005	8.7900e-003	6.0000e-005	8.8500e-003	2.3400e-003	5.0000e-005	2.3900e-003	0.0000	7.3503	7.3503	1.8000e-004	0.0000	7.3548

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0597	0.5466	0.5727	9.4000e-004		0.0283	0.0283		0.0266	0.0266	0.0000	81.1038	81.1038	0.0194	0.0000	81.5896
Total	0.0597	0.5466	0.5727	9.4000e-004		0.0283	0.0283		0.0266	0.0266	0.0000	81.1038	81.1038	0.0194	0.0000	81.5896

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3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2000e-003	0.0768	0.0136	2.1000e-004	4.8700e-003	2.0000e-004	5.0700e-003	1.4100e-003	1.9000e-004	1.6000e-003	0.0000	19.4795	19.4795	1.4500e-003	0.0000	19.5157
Worker	9.0900e-003	5.7400e-003	0.0607	1.9000e-004	0.0202	1.3000e-004	0.0203	5.3500e-003	1.2000e-004	5.4800e-003	0.0000	16.8389	16.8389	4.1000e-004	0.0000	16.8492
Total	0.0113	0.0825	0.0744	4.0000e-004	0.0250	3.3000e-004	0.0254	6.7600e-003	3.1000e-004	7.0800e-003	0.0000	36.3184	36.3184	1.8600e-003	0.0000	36.3648

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0597	0.5466	0.5727	9.4000e-004		0.0283	0.0283		0.0266	0.0266	0.0000	81.1037	81.1037	0.0194	0.0000	81.5895
Total	0.0597	0.5466	0.5727	9.4000e-004		0.0283	0.0283		0.0266	0.0266	0.0000	81.1037	81.1037	0.0194	0.0000	81.5895

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3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2000e-003	0.0768	0.0136	2.1000e-004	4.8700e-003	2.0000e-004	5.0700e-003	1.4100e-003	1.9000e-004	1.6000e-003	0.0000	19.4795	19.4795	1.4500e-003	0.0000	19.5157
Worker	9.0900e-003	5.7400e-003	0.0607	1.9000e-004	0.0202	1.3000e-004	0.0203	5.3500e-003	1.2000e-004	5.4800e-003	0.0000	16.8389	16.8389	4.1000e-004	0.0000	16.8492
Total	0.0113	0.0825	0.0744	4.0000e-004	0.0250	3.3000e-004	0.0254	6.7600e-003	3.1000e-004	7.0800e-003	0.0000	36.3184	36.3184	1.8600e-003	0.0000	36.3648

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383

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3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.6800e-003	0.2202	0.0418	7.4000e-004	0.0181	2.2000e-004	0.0183	5.2300e-003	2.1000e-004	5.4400e-003	0.0000	70.5934	70.5934	3.6900e-003	0.0000	70.6856
Worker	0.0314	0.0191	0.2055	6.7000e-004	0.0748	4.8000e-004	0.0753	0.0199	4.5000e-004	0.0203	0.0000	60.2119	60.2119	1.3600e-003	0.0000	60.2460
Total	0.0370	0.2393	0.2474	1.4100e-003	0.0929	7.0000e-004	0.0936	0.0251	6.6000e-004	0.0258	0.0000	130.8053	130.8053	5.0500e-003	0.0000	130.9316

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380

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3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.6800e-003	0.2202	0.0418	7.4000e-004	0.0181	2.2000e-004	0.0183	5.2300e-003	2.1000e-004	5.4400e-003	0.0000	70.5934	70.5934	3.6900e-003	0.0000	70.6856
Worker	0.0314	0.0191	0.2055	6.7000e-004	0.0748	4.8000e-004	0.0753	0.0199	4.5000e-004	0.0203	0.0000	60.2119	60.2119	1.3600e-003	0.0000	60.2460
Total	0.0370	0.2393	0.2474	1.4100e-003	0.0929	7.0000e-004	0.0936	0.0251	6.6000e-004	0.0258	0.0000	130.8053	130.8053	5.0500e-003	0.0000	130.9316

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179

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3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.5500e-003	0.2202	0.0398	7.4000e-004	0.0182	2.2000e-004	0.0185	5.2700e-003	2.1000e-004	5.4800e-003	0.0000	70.5985	70.5985	3.7700e-003	0.0000	70.6929
Worker	0.0295	0.0173	0.1911	6.5000e-004	0.0754	4.8000e-004	0.0759	0.0200	4.4000e-004	0.0205	0.0000	58.3685	58.3685	1.2400e-003	0.0000	58.3994
Total	0.0351	0.2374	0.2309	1.3900e-003	0.0937	7.0000e-004	0.0943	0.0253	6.5000e-004	0.0260	0.0000	128.9670	128.9670	5.0100e-003	0.0000	129.0922

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175

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3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.5500e-003	0.2202	0.0398	7.4000e-004	0.0182	2.2000e-004	0.0185	5.2700e-003	2.1000e-004	5.4800e-003	0.0000	70.5985	70.5985	3.7700e-003	0.0000	70.6929
Worker	0.0295	0.0173	0.1911	6.5000e-004	0.0754	4.8000e-004	0.0759	0.0200	4.4000e-004	0.0205	0.0000	58.3685	58.3685	1.2400e-003	0.0000	58.3994
Total	0.0351	0.2374	0.2309	1.3900e-003	0.0937	7.0000e-004	0.0943	0.0253	6.5000e-004	0.0260	0.0000	128.9670	128.9670	5.0100e-003	0.0000	129.0922

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.5 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.3800e-003	0.2175	0.0377	7.3000e-004	0.0182	2.1000e-004	0.0184	5.2500e-003	2.0000e-004	5.4500e-003	0.0000	69.8327	69.8327	3.8100e-003	0.0000	69.9280
Worker	0.0276	0.0156	0.1753	6.2000e-004	0.0751	4.7000e-004	0.0756	0.0200	4.3000e-004	0.0204	0.0000	55.8483	55.8483	1.1100e-003	0.0000	55.8760
Total	0.0330	0.2330	0.2130	1.3500e-003	0.0933	6.8000e-004	0.0940	0.0252	6.3000e-004	0.0258	0.0000	125.6810	125.6810	4.9200e-003	0.0000	125.8040

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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3.5 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.3800e-003	0.2175	0.0377	7.3000e-004	0.0182	2.1000e-004	0.0184	5.2500e-003	2.0000e-004	5.4500e-003	0.0000	69.8327	69.8327	3.8100e-003	0.0000	69.9280
Worker	0.0276	0.0156	0.1753	6.2000e-004	0.0751	4.7000e-004	0.0756	0.0200	4.3000e-004	0.0204	0.0000	55.8483	55.8483	1.1100e-003	0.0000	55.8760
Total	0.0330	0.2330	0.2130	1.3500e-003	0.0933	6.8000e-004	0.0940	0.0252	6.3000e-004	0.0258	0.0000	125.6810	125.6810	4.9200e-003	0.0000	125.8040

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1757	1.6024	2.0669	3.4600e-003		0.0678	0.0678		0.0638	0.0638	0.0000	298.0165	298.0165	0.0701	0.0000	299.7679
Total	0.1757	1.6024	2.0669	3.4600e-003		0.0678	0.0678		0.0638	0.0638	0.0000	298.0165	298.0165	0.0701	0.0000	299.7679

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3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.1700e-003	0.2123	0.0356	7.2000e-004	0.0179	2.1000e-004	0.0181	5.1700e-003	2.0000e-004	5.3700e-003	0.0000	68.3245	68.3245	3.8100e-003	0.0000	68.4197
Worker	0.0256	0.0140	0.1609	5.9000e-004	0.0740	4.5000e-004	0.0744	0.0197	4.1000e-004	0.0201	0.0000	53.0692	53.0692	1.0000e-003	0.0000	53.0941
Total	0.0308	0.2262	0.1966	1.3100e-003	0.0919	6.6000e-004	0.0925	0.0248	6.1000e-004	0.0254	0.0000	121.3937	121.3937	4.8100e-003	0.0000	121.5138

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1757	1.6024	2.0669	3.4600e-003		0.0678	0.0678		0.0638	0.0638	0.0000	298.0161	298.0161	0.0701	0.0000	299.7675
Total	0.1757	1.6024	2.0669	3.4600e-003		0.0678	0.0678		0.0638	0.0638	0.0000	298.0161	298.0161	0.0701	0.0000	299.7675

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3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.1700e-003	0.2123	0.0356	7.2000e-004	0.0179	2.1000e-004	0.0181	5.1700e-003	2.0000e-004	5.3700e-003	0.0000	68.3245	68.3245	3.8100e-003	0.0000	68.4197
Worker	0.0256	0.0140	0.1609	5.9000e-004	0.0740	4.5000e-004	0.0744	0.0197	4.1000e-004	0.0201	0.0000	53.0692	53.0692	1.0000e-003	0.0000	53.0941
Total	0.0308	0.2262	0.1966	1.3100e-003	0.0919	6.6000e-004	0.0925	0.0248	6.1000e-004	0.0254	0.0000	121.3937	121.3937	4.8100e-003	0.0000	121.5138

3.6 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.8300e-003	0.0172	0.0292	5.0000e-005		8.4000e-004	8.4000e-004		7.7000e-004	7.7000e-004	0.0000	4.0039	4.0039	1.2900e-003	0.0000	4.0362
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.8300e-003	0.0172	0.0292	5.0000e-005		8.4000e-004	8.4000e-004		7.7000e-004	7.7000e-004	0.0000	4.0039	4.0039	1.2900e-003	0.0000	4.0362

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3.6 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	8.0000e-005	5.0000e-005	5.2000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	0.1721	0.1721	0.0000	0.0000	0.1722
Total	8.0000e-005	5.0000e-005	5.2000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	0.1721	0.1721	0.0000	0.0000	0.1722

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.8300e-003	0.0172	0.0292	5.0000e-005		8.4000e-004	8.4000e-004		7.7000e-004	7.7000e-004	0.0000	4.0039	4.0039	1.2900e-003	0.0000	4.0362
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.8300e-003	0.0172	0.0292	5.0000e-005		8.4000e-004	8.4000e-004		7.7000e-004	7.7000e-004	0.0000	4.0039	4.0039	1.2900e-003	0.0000	4.0362

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3.6 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	5.2000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	0.1721	0.1721	0.0000	0.0000	0.1722
Total	8.0000e-005	5.0000e-005	5.2000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	0.1721	0.1721	0.0000	0.0000	0.1722

3.6 Paving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0325	0.3047	0.5175	8.1000e-004		0.0149	0.0149		0.0137	0.0137	0.0000	71.0684	71.0684	0.0230	0.0000	71.6430
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0325	0.3047	0.5175	8.1000e-004		0.0149	0.0149		0.0137	0.0137	0.0000	71.0684	71.0684	0.0230	0.0000	71.6430

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3.6 Paving - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3900e-003	7.3000e-004	8.6100e-003	3.0000e-005	4.2600e-003	2.0000e-005	4.2800e-003	1.1300e-003	2.0000e-005	1.1500e-003	0.0000	2.9515	2.9515	5.0000e-005	0.0000	2.9528
Total	1.3900e-003	7.3000e-004	8.6100e-003	3.0000e-005	4.2600e-003	2.0000e-005	4.2800e-003	1.1300e-003	2.0000e-005	1.1500e-003	0.0000	2.9515	2.9515	5.0000e-005	0.0000	2.9528

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0325	0.3047	0.5175	8.1000e-004		0.0149	0.0149		0.0137	0.0137	0.0000	71.0683	71.0683	0.0230	0.0000	71.6429
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0325	0.3047	0.5175	8.1000e-004		0.0149	0.0149		0.0137	0.0137	0.0000	71.0683	71.0683	0.0230	0.0000	71.6429

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3.6 Paving - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3900e-003	7.3000e-004	8.6100e-003	3.0000e-005	4.2600e-003	2.0000e-005	4.2800e-003	1.1300e-003	2.0000e-005	1.1500e-003	0.0000	2.9515	2.9515	5.0000e-005	0.0000	2.9528
Total	1.3900e-003	7.3000e-004	8.6100e-003	3.0000e-005	4.2600e-003	2.0000e-005	4.2800e-003	1.1300e-003	2.0000e-005	1.1500e-003	0.0000	2.9515	2.9515	5.0000e-005	0.0000	2.9528

3.7 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.3789					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4100e-003	0.0430	0.0678	1.1000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	9.5747	9.5747	5.2000e-004	0.0000	9.5878
Total	3.3853	0.0430	0.0678	1.1000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	9.5747	9.5747	5.2000e-004	0.0000	9.5878

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3.7 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3700e-003	7.2000e-004	8.4900e-003	3.0000e-005	4.2000e-003	2.0000e-005	4.2200e-003	1.1200e-003	2.0000e-005	1.1400e-003	0.0000	2.9099	2.9099	5.0000e-005	0.0000	2.9112
Total	1.3700e-003	7.2000e-004	8.4900e-003	3.0000e-005	4.2000e-003	2.0000e-005	4.2200e-003	1.1200e-003	2.0000e-005	1.1400e-003	0.0000	2.9099	2.9099	5.0000e-005	0.0000	2.9112

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.3789					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4100e-003	0.0430	0.0678	1.1000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	9.5747	9.5747	5.2000e-004	0.0000	9.5878
Total	3.3853	0.0430	0.0678	1.1000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	9.5747	9.5747	5.2000e-004	0.0000	9.5878

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3.7 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3700e-003	7.2000e-004	8.4900e-003	3.0000e-005	4.2000e-003	2.0000e-005	4.2200e-003	1.1200e-003	2.0000e-005	1.1400e-003	0.0000	2.9099	2.9099	5.0000e-005	0.0000	2.9112
Total	1.3700e-003	7.2000e-004	8.4900e-003	3.0000e-005	4.2000e-003	2.0000e-005	4.2200e-003	1.1200e-003	2.0000e-005	1.1400e-003	0.0000	2.9099	2.9099	5.0000e-005	0.0000	2.9112

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5687	5.5521	6.1318	0.0329	2.0872	0.0193	2.1065	0.5612	0.0181	0.5793	0.0000	3,059.3015	3,059.3015	0.1552	0.0000	3,063.1808
Unmitigated	0.5687	5.5521	6.1318	0.0329	2.0872	0.0193	2.1065	0.5612	0.0181	0.5793	0.0000	3,059.3015	3,059.3015	0.1552	0.0000	3,063.1808

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,904.00	1,982.00	1,724.00	5,475,218	5,475,218
Total	1,904.00	1,982.00	1,724.00	5,475,218	5,475,218

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.517262	0.031316	0.171418	0.114437	0.017015	0.004840	0.021467	0.112166	0.001792	0.001507	0.005146	0.000939	0.000694

5.0 Energy Detail

Historical Energy Use: N

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5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/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	0.0278	0.2372	0.1009	1.5100e-003		0.0192	0.0192		0.0192	0.0192	0.0000	274.6497	274.6497	5.2600e-003	5.0400e-003	276.2818
NaturalGas Unmitigated	0.0278	0.2372	0.1009	1.5100e-003		0.0192	0.0192		0.0192	0.0192	0.0000	274.6497	274.6497	5.2600e-003	5.0400e-003	276.2818

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	5.14674e+006	0.0278	0.2372	0.1009	1.5100e-003		0.0192	0.0192		0.0192	0.0192	0.0000	274.6497	274.6497	5.2600e-003	5.0400e-003	276.2818
Total		0.0278	0.2372	0.1009	1.5100e-003		0.0192	0.0192		0.0192	0.0192	0.0000	274.6497	274.6497	5.2600e-003	5.0400e-003	276.2818

Ohanesian Residential Development - San Joaquin Valley Unified APCD Air District, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	5.14674e+006	0.0278	0.2372	0.1009	1.5100e-003		0.0192	0.0192		0.0192	0.0192	0.0000	274.6497	274.6497	5.2600e-003	5.0400e-003	276.2818
Total		0.0278	0.2372	0.1009	1.5100e-003		0.0192	0.0192		0.0192	0.0192	0.0000	274.6497	274.6497	5.2600e-003	5.0400e-003	276.2818

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	1.71881e+006	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Ohanesian Residential Development - San Joaquin Valley Unified APCD Air District, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	1.71881e+006	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	tons/yr										MT/yr					
Mitigated	1.7974	0.0919	1.5172	5.6000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	89.0672	89.0672	3.9900e-003	1.5900e-003	89.6404
Unmitigated	1.7974	0.0919	1.5172	5.6000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	89.0672	89.0672	3.9900e-003	1.5900e-003	89.6404

Ohanesian Residential Development - San Joaquin Valley Unified APCD Air District, Annual

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3379					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4060					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	8.7500e-003	0.0748	0.0318	4.8000e-004		6.0500e-003	6.0500e-003		6.0500e-003	6.0500e-003	0.0000	86.6415	86.6415	1.6600e-003	1.5900e-003	87.1564
Landscaping	0.0448	0.0171	1.4854	8.0000e-005		8.2200e-003	8.2200e-003		8.2200e-003	8.2200e-003	0.0000	2.4258	2.4258	2.3300e-003	0.0000	2.4841
Total	1.7974	0.0919	1.5172	5.6000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	89.0672	89.0672	3.9900e-003	1.5900e-003	89.6404

Ohanesian Residential Development - San Joaquin Valley Unified APCD Air District, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3379					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4060					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	8.7500e-003	0.0748	0.0318	4.8000e-004		6.0500e-003	6.0500e-003		6.0500e-003	6.0500e-003	0.0000	86.6415	86.6415	1.6600e-003	1.5900e-003	87.1564
Landscaping	0.0448	0.0171	1.4854	8.0000e-005		8.2200e-003	8.2200e-003		8.2200e-003	8.2200e-003	0.0000	2.4258	2.4258	2.3300e-003	0.0000	2.4841
Total	1.7974	0.0919	1.5172	5.6000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	89.0672	89.0672	3.9900e-003	1.5900e-003	89.6404

7.0 Water Detail

7.1 Mitigation Measures Water

Ohanesian Residential Development - San Joaquin Valley Unified APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.1341	0.4246	0.0100	17.7370
Unmitigated	4.1341	0.4246	0.0100	17.7370

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	13.0308 / 8.21507	4.1341	0.4246	0.0100	17.7370
Total		4.1341	0.4246	0.0100	17.7370

Ohanesian Residential Development - San Joaquin Valley Unified APCD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	13.0308 / 8.21507	4.1341	0.4246	0.0100	17.7370
Total		4.1341	0.4246	0.0100	17.7370

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	48.4215	2.8616	0.0000	119.9621
Unmitigated	48.4215	2.8616	0.0000	119.9621

Ohanesian Residential Development - San Joaquin Valley Unified APCD Air District, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	238.54	48.4215	2.8616	0.0000	119.9621
Total		48.4215	2.8616	0.0000	119.9621

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	238.54	48.4215	2.8616	0.0000	119.9621
Total		48.4215	2.8616	0.0000	119.9621

9.0 Operational Offroad

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

Ohanesian Residential Development - San Joaquin Valley Unified APCD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

Appendix B
Biological Study



February 9, 2021

Zach Gomes, Vice President of Operations
KB Home Central California
744 P Street, Third Floor, Suite 321
Fresno, CA 93721

Subject: Ohanesian Project, Fresno, California—Biological Due Diligence

Dear Mr. Gomes:

In support of the Ohanesian Project, H. T. Harvey & Associates conducted a site survey for an approximately 37.9-acre residential development identified as APN 481-020-47 located in the southeastern quarter of Section 18, Township 14S, Range 21E, in the city of Fresno, Fresno County, California. This survey was requested by KB Home Central California in due diligence to assess whether any species federally or state listed as threatened, endangered, or candidate or any state species of special concern (collectively referred to as special-status species) occur or are likely to occur on the project site.

A qualified H. T. Harvey & Associates ecologist performed a biological survey of the project site on January 29, 2021, to determine the potential presence of special-status plant and wildlife species. The ecologist surveyed the entire site by walking east-west transects spaced approximately 100 feet (ft.) apart. This provided full visual coverage of the project site for assessing habitat composition and species presence. In addition, the ecologist visually surveyed all areas within a quarter-mile of project site boundaries for signs of current or prior nesting (e.g., existing nests) by raptors species.

The site consists of loose, recently-disked soil, except for an approximately 1-acre stormwater detention pond at the western border that consists of bare, compacted soil. Approximately 11 acres in the southwest corner and along the central part of the southern border have been disked since the spring 2020 growing season and are sparsely vegetated. The remainder of the site also shows signs of recent disking, but currently is approximately 95% covered in vegetation, with the remainder consisting of bare soil. Garbage is relatively abundant, especially in the detention pond and the northwest corner. Overall, the site conditions are currently unsuitable for special-status plant species. Vegetation on the site is comprised mostly of grasses, but some low-growing forbs are also present. Plant height is currently low, with grasses and forbs 1-6 inches tall. The site can be characterized as annual grassland in the process of re-establishment. As a result of past ground disturbance, the project site is highly suitable for nonnative invasive plants. We understand that all vegetation in construction areas will be cleared and that the use of site-specific best management practices will minimize the dispersal of nonnative invasive plants.

The project site is relatively far from recent records of special-status species. A query of California Natural Diversity Database (CNDDDB 2021¹) records occurring within 5 miles (mi) of the project site revealed seven special-status species occurrences, two of which are for Swainson's hawk (*Buteo swainsoni*). The site falls within the extent of a Swainson's hawk occurrence mapped over Fresno that has not been reconfirmed since 1956. The other Swainson's hawk occurrence is based on observations from 2016 and is located 3.5 miles (mi.) southwest of the project site. In addition, there are two occurrences of burrowing owls (*Athene cunicularia*), one located 4.2 mi. to the north at Fresno Yosemite International Airport and another located 4.0 mi. to the northwest in Clovis. Also, double-crested cormorant (*Phalacrocorax auritus*) was documented at a collection of ponds 4.8 mi. to the north-northwest in 2012. The remaining records (for least Bell's vireo [*Vireo bellii pusillus*] and western yellow-billed cuckoo [*Coccyzus americanus occidentalis*]) are both over 3.5 mi. away from the site and have not been reconfirmed within the last 108 years.

The annual grassland in the Project area potentially provides habitat for common, rural and urban-adapted wildlife species, such as ground-foraging and -nesting birds, California ground squirrels (*Otospermophilus beecheyi*), pocket gophers (*Thomomys bottae*), and desert cottontail (*Sylvilagus audubonii*). Wildlife directly observed on the project site consisted of common bird species and the remains of two California ground squirrels. Several individuals of each of four common bird species (mourning dove [*Zenaida macroura*], California scrub-jay [*Aphelocoma californica*], dark-eyed junco [*Junco hyemalis*], and European starling [*Sturnus vulgaris*]) were observed perched on and flying around the line of trees on the southern border of the Project site.

Numerous small mammal burrows occur on the Project site. Several active pocket gopher burrows were found scattered across the site. The site also currently supports a large population of California ground squirrels. Their burrows were abundant at the edge and along the slopes of the detention pond and were moderately abundant throughout the rest of the site. The California ground squirrel remains were located within 1 ft. of burrows of this species and represent predation and/or scavenging, perhaps by red-tailed hawks or other raptors. No signs of mammalian predators (e.g. coyotes [*Canis latrans*]) were observed. All animal species observed directly on or near (i.e., within 0.25 mi.) the project site are listed in Appendix A.

Many of the California ground squirrel burrows are large (about 3-5 inches in diameter), with large, unvegetated aprons, and thus are potentially suitable for use by burrowing owls, which is listed as Species of Special Concern by the State of California. No burrowing owls or signs of this species (e.g. pellets, feathers, or wash) were observed. However, the survey was conducted during conditions of light to moderately heavy rain in the middle of a rain event lasting several days. Any owls present would have been underground in their burrows, and their wash would have been rinsed away. The occurrence of potentially suitable burrows suggests that burrowing owls might be present.

No direct evidence of special-status animal or plant species was observed and the site provides little or no value to sensitive plant and wildlife species with the exception of burrowing owl. The presence of burrowing owls on the

¹ [CNDDDB] California Natural Diversity Database. 2021. Results of electronic records search. Rarefind 5. California Department of Fish and Wildlife. <<https://map.dfg.ca.gov/rarefind/view/RareFind.aspx>>. Accessed January 2021.

property could constrain the development of the parcel or result in project delays. Burrowing owls, and their nests are protected under state laws and regulations, including the California Fish and Game Code Section 3503.5.

Based on our understanding of burrowing owl distribution in the Central Valley, burrowing owls are unlikely to occupy this site. The size of the parcel and the adjacent similar parcel east of Peach Avenue combined with the number of suitable burrows on the site, however, warrant a cautious approach. We recommend implementation of the measures included in the Staff Report on Burrowing Owl Mitigation (CDFG 2012²) including surveys of the project site.

In addition to implementation of the measures included in the Staff Report on Burrowing Owl Mitigation (CDFG 2012, if construction activities occur during the avian nesting season (generally, February 1 through August 31), preconstruction surveys for nesting birds by a qualified ornithologist should be conducted to ensure that no active nests are disturbed during construction. The survey should be conducted no more than 7 days before construction activities begin. During this survey, all potential nesting areas should be inspected in and immediately adjacent to the impact areas for nests. If an active nest is found sufficiently close to work areas to be disturbed by these activities, the ornithologist should determine the extent of a construction-free buffer zone to be established around the nest (typically, 300 ft. for raptors and 25–100 ft. for other species) to ensure that no active nests of species protected by the California Fish and Game Code would be disturbed during project construction.

Please feel free to contact me at 559.960.0849 or jseay@harveyecology.com regarding these survey results.

Sincerely,



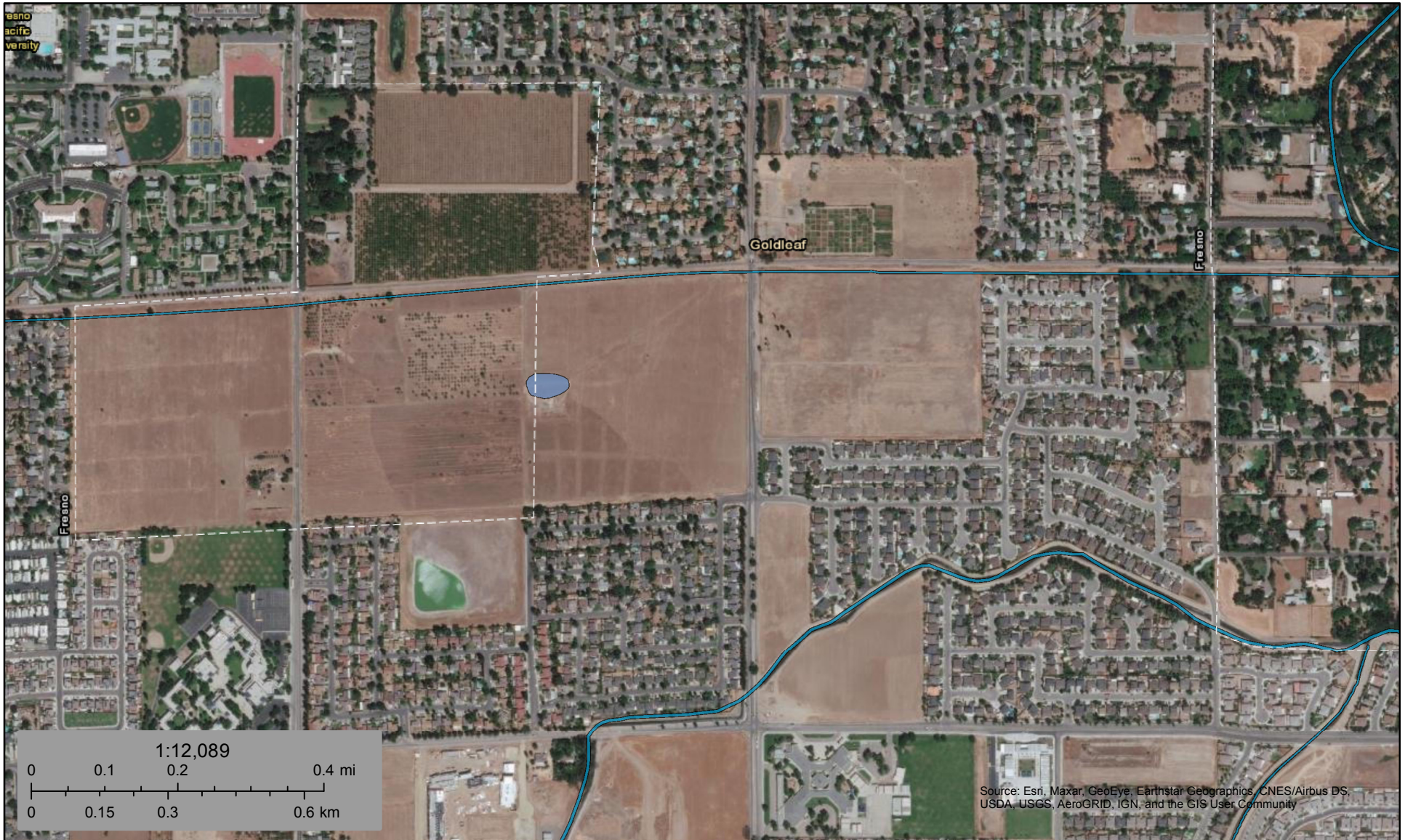
Jeff Seay
Senior Wildlife Ecologist

² [CDFG] California Department of Fish and Game. 2012. Staff Report on Burrowing Owl Mitigation. March 7.

Appendix A. Animal Species Observed On or Within 0.25 Mile of the Ohanesian Project Site

Common Name	Scientific Name
Birds	
Mourning dove	<i>Zenaida macroura</i>
Red-tailed hawk	<i>Buteo jamaicensis</i>
California scrub-jay	<i>Aphelocoma californica</i>
Unidentified swallow species	Family Hirundinidae
Dark-eyed junco	<i>Junco hyemalis</i>
European starling	<i>Sturnus vulgaris</i>
Mammals	
California ground squirrel	<i>Otospermophilus beecheyi</i>

Note: None of the observed species are special-status species.



December 29, 2021

Wetlands

- Estuarine and Marine Deepwater
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Appendix C
CHRIS Search



To: Emily Bowen
Crawford & Bowen Planning, Inc.
113 N. Church St. #302
Visalia, CA 93291

Record Search 21-440

Date: November 12, 2021

Re: Ohanesian Residential Development Project for the City of Fresno

County: Fresno

Map(s): Malaga 7.5'

CULTURAL RESOURCES RECORDS SEARCH

The California Office of Historic Preservation (OHP) contracts with the California Historical Resources Information System's (CHRIS) regional Information Centers (ICs) to maintain information in the CHRIS inventory and make it available to local, state, and federal agencies, cultural resource professionals, Native American tribes, researchers, and the public. Recommendations made by IC coordinators or their staff regarding the interpretation and application of this information are advisory only. Such recommendations do not necessarily represent the evaluation or opinion of the State Historic Preservation Officer in carrying out the OHP's regulatory authority under federal and state law.

The following are the results of a search of the cultural resource files at the Southern San Joaquin Valley Information Center. These files include known and recorded cultural resources sites, inventory and excavation reports filed with this office, and resources listed on the National Register of Historic Places, the OHP Built Environment Resources Directory, California State Historical Landmarks, California Register of Historical Resources, California Inventory of Historic Resources, and California Points of Historical Interest. Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the OHP are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area.

PRIOR CULTURAL RESOURCE STUDIES CONDUCTED WITHIN THE PROJECT AREA AND THE ONE-HALF MILE RADIUS

According to the information in our files, there has been no cultural resource studies in the Project Area, and eight cultural resource studies fall in the one-half mile radius, FR-00296, 01800, 02000, 02126, 02127, 02194, 02217, 02972.

KNOWN/RECORDED CULTURAL RESOURCES WITHIN THE PROJECT AREA AND THE ONE-HALF MILE RADIUS

There are no recorded resources within the project area, and four recorded resources fall within the one-half mile radius, P-10-003930, 004677, 005120, & 005305. These resources consist of historic railroads, canals, and historic properties.

There are no recorded cultural resources within the project area or radius that are listed in the National Register of Historic Places, the California Register of Historical Resources, the California Points of Historical Interest, California Inventory of Historic Resources, or the California State Historic Landmarks.

COMMENTS AND RECOMMENDATIONS

We understand this project includes the development of 200 single family residential units. Further, we understand this project area is currently vacant. Because none of this project area has been previously studied for cultural resources, it is unknown if any are present. As such, prior to ground disturbance activities, we recommend a qualified, professional consultant conduct a field survey to determine if cultural resources are present. A list of qualified consultants can be found at www.chrisinfo.org.

We also recommend that you contact the Native American Heritage Commission in Sacramento. They will provide you with a current list of Native American individuals/organizations that can assist you with information regarding cultural resources that may not be included in the CHRIS Inventory and that may be of concern to the Native groups in the area. The Commission can consult their "Sacred Lands Inventory" file to determine what sacred resources, if any, exist within this project area and the way in which these resources might be managed. Finally, please consult with the lead agency on this project to determine if any other cultural resource investigation is required. If you need any additional information or have any questions or concerns, please contact our office at (661) 654-2289.

By:



Jeremy E David, Assistant Coordinator

Date: November 12, 2021

Please note that invoices for Information Center services will be sent under separate cover from the California State University, Bakersfield Accounting Office.

Appendix D

Phase I Environmental Site Assessment



**PHASE I ENVIRONMENTAL SITE ASSESSMENT
FOR
OHANESIAN ESTATES
2121 SOUTH WILLOW AVENUE, 2108 SOUTH PEACH AVENUE & 2122 SOUTH PEACH AVENUE
APN's 481-020-01, 481-020-31 & 481-020-47
FRESNO, CALIFORNIA 93727**

for

KB Home Central California
744 P Street, 3rd Floor, Suite 321
Fresno, CA 93721

March 15, 2021

Project Number 21G-0040-1



Project No. 21G-0040-1

March 15, 2021

Mr. Zach Gomes, Vice President
KB Home Central California
744 P Street, 3rd Floor, Suite 321
Fresno, CA 93721

Subject: Phase I Environmental Site Assessment
Ohanesian Estates
2121 South Willow Avenue, 2108 South Peach Avenue,
& 2122 South Peach Avenue
APN's 481-020-01, 481-020-31 & 481-020-47
Fresno, California 93727

Dear Mr. Gomes;

Pursuant to your request, a Phase I Environmental Site Assessment has been performed at the subject property in accordance with the current Standard of Practice for Phase I Environmental Site Assessments per the ASTM:E 1527-13 guidelines. This report is presented for the sole use of KB Home Central California and their representatives and/or associates to use as an indication whether hazardous materials and or soil contamination may be present on the site. This report may not contain sufficient information for other uses.

If you have any questions regarding the information presented in this report, please do not hesitate to contact our office. We appreciate the opportunity to be of service to you.

Sincerely,
RMA GeoScience, Inc.

Megan J. Stewart, GIT
Staff Geologist



Josue A. Montes, GE 2904
Principal Engineer

Distribution: Addressee (pdf copy to ZGomes@kbhome.com)

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EDR Sanborn Map Report

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1.0 INTRODUCTION

1.1 Purpose

A Phase I Environmental Site Assessment (ESA) update was performed for the Ohanesian Estates project, APN's 481-020-01, 481-020-31, & 481-020-47 in Fresno, California (Site). The purpose of the assessment was to identify to the extent feasible any recognized environmental conditions in connection with the aforementioned property. The American Society for Testing and Materials (ASTM) E1527-13 defines recognized environmental conditions as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions. De minimis conditions generally do not present a material risk of harm to public health or the environment and generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

1.2 Site Location and Description

The site is located on the northwest corner of South Peach Avenue & East Florence Avenue in the southeast part of Fresno, California (Fig. 1). The site consists of three parcels of property (Figure 2). The site is overall similar to street grade. It is relatively flat is currently vacant. The site is located on vacant lots west of South Peach Avenue, east of South Willow Avenue, and north of East Church Avenue.

The site's central geographic position is 36.7201° north latitude and 119.7207 ° west longitude.

1.3 Scope of Work

Our work was performed in conformance with the scope and limitations of the American Society for Testing and Materials (ASTM) E:1527-13). In order to complete this report the following scope of work was completed.

- a. A visual reconnaissance of the site and surrounding area to visually evaluate the potential for site contamination and to identify the current land use
- b. A review of the regional geologic maps and geologic references pertinent to the subject site
- c. A review of historical aerial photographs and topographic maps to assess the site's historical land use, and for indications of potential contamination or sources of contamination
- d. A database search of federal, state and local regulatory agencies obtained by Environmental Data Resource (EDR), which is included with this report
- e. Review of local governmental databases and files
- f. Identify key personnel, local officials, and current owners of the property to conduct interviews with persons knowledgeable of the site and surrounding areas



- g. Preparation of this report

1.4 General Limitations and Exceptions

This report was completed in substantial conformance with the scope and practice set forth by the ASTM Standard E 1527-13 with a level of care and skill ordinarily exercised by members of our profession currently practicing in California. No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions. This assessment is not, and should not be construed as, a warranty or guarantee concerning the presence or not of hazardous substances which may affect the property. All information presented in this report is based on visual observations, research of publicly available information, review of maps and literature, experience, and professional judgment. The ASTM standard defines reasonably ascertainable information as information that is publicly available with reasonable time and cost constraints and yields relevant information without the need for extraordinary analysis of irrelevant data.

The site was accessible on foot.

The following are considered non-scope items and are not included in the scope of this report:

- * Asbestos Containing Building Materials
- * Biological Agents
- * Cultural and Historical Resources
- * Mold
- * Radon
- * Lead-Based Paint
- * Lead in Drinking Water
- * Wetlands
- * Regulatory compliance
- * Industrial Hygiene
- * Health and Safety
- * High Voltage Power Lines
- * Ecological Resources
- * Indoor Air Quality

1.5 Special Terms and Conditions

This report is intended for the sole use of KB Home Central California. Its contents are considered to be privileged and confidential. The contents should not be relied upon by any party other than the aforementioned without the express written consent of RMA GeoScience, Inc. and KB Home Central California.

1.6 User Provided Information

A User Questionnaire was sent to Mr. Zach Gomes, identified user or party seeking to complete an environmental site assessment of the property. The User Questionnaire serves to assist the environmental



professional in gathering information from the user that may be material to identifying recognized environmental conditions. The questionnaire completed by Mr. Gomes is included with report.

2.0 SITE OVERVIEW

2.1 Site Observations

Our visual site reconnaissance was conducted on March 2, 2021. The purpose of our reconnaissance was to visually assess the site and surrounding area for any recognized environmental conditions. Photographs of the site during site reconnaissance are included with this report.

2.1.1 Exterior Observations

Item	Observed or Suspected	Not Observed or Suspected
Hazardous substances & Petroleum products		X
Above Ground Storage tanks		X
Underground Storage Tanks		X
Odors		X
Standing water or pools of liquids		X
Drums, hazardous substance or petroleum containers		X
Unidentified substance containers		X
Electrical or hydraulic equipment known or likely to contain PCBs		X
Pits, ponds or lagoons		X
Stained soil or pavement		X
Stresses vegetation (other than from insufficient water)		X
Solid waste, mounds or depressions suggesting trash or soil waste disposal	X	
Waste water or storm water discharge into a drain, ditch, stream or adjacent property		X
Wells (active, inactive or abandoned)	X	
Sewage disposal system		X
Structures		X
Roads	X	
Railroad lines or spurs	X	

2.2 Hazardous Substances & Petroleum Products

Hazardous substances or petroleum products containers for liquids are generally less than 5 gallons and may be made of metal, glass or plastic. Containers may also contain solids and gasses and may be made of paper, plastic, cardboard or metal. Hazardous substances or petroleum products can be contained in equipment such as elevator and hoist pistons, machinery, forklifts and other equipment.

No hazardous substances and/or petroleum products were observed onsite.



2.3 Aboveground Storage Tanks

No features associated with ASTs were observed during our site reconnaissance. No records were found relating to an AST on the site.

2.4 Underground Storage Tanks

No features associated with USTs were observed during our site reconnaissance. No records were found relating to a UST on the site. However, according to Mr. Steve Ohanesian, a tank was present at 2122 South Peach Avenue (APN 481-020-47) at some point.

2.5 Polychlorinated Biphenyls (PCBs)

Polychlorinated biphenyl's (PCBs) were once widely used in dielectric and coolant oils in transformers and capacitors. PCB production was banned in the US in 1979 but some older transformers and electrical equipment may still contain PCBs. Many fluorescent light ballasts manufactured before 1979 also contained small quantities of PCBs. An inventory and inspection of fluorescent light ballasts was not conducted as part of this investigation.

No items containing PCBs were observed onsite.

2.6 Stressed Vegetation, Pits, Ponds and Lagoons and Standing Water

No stressed vegetation was observed. No pits or ponds were observed. No standing water was observed.

2.7 Solid Waste, Mounds, or Depressions Suggesting Trash or Solid Waste Disposal

Near the northeast corner of the site, brick, concrete, and glass were noted in the soil. According to Ms. Rose Avedisian, a household garbage pit is present at this location.

2.8 Wastewater

No industrial waste water exists on-site and there is no waste water treatment facilities located on or near the site.

2.9 Existing or Abandoned Oil and Water Wells

According to the database maintained by the Department of Oil, Gas, and Geothermal Resources there are no oil wells located at or in the near vicinity of the site.

According to records obtained, a domestic water well with the pump removed with the casing exposed was sealed and covered with a steel lid on APN 481-020-31 under the direction of the City of Fresno by Bill Matthews of HD Matthews Demolition in March of 2010.



2.10 Septic Systems

According to records obtained, a septic tank was removed from APN 481-020-31 and backfilled with soil under the direction of the City of Fresno by Bill Matthews of HD Matthews Demolition in March of 2010.

However, due to the presence of residential homes on APN 481-020-01 and 481-020-47, additional septic systems may be present.

2.11 Asbestos-Containing Building Materials

Asbestos is a fibrous material and has been used in many different applications for its fireproofing abilities and resistance to many chemicals. Common uses of asbestos included thermal and acoustical insulation, fireproofing, textiles, concrete, plastic products such as vinyl floor tiles, roofing felts, and paper and electrical insulation.

The buildings were present on site since at least 1937 until sometime between 2009 and 2012. These would have been constructed prior the 1978 ban on the manufacture of friable asbestos containing material and prior to the 1980 PACM date established by the July 10, 1995 Federal regulations. An asbestos survey was not conducted as part of this investigation.

2.12 Railroad Lines or Spurs

A railroad line operated by San Joaquin Valley Railroad (SJVR) runs along the north margin of the site.

2.13 Site Reconnaissance of Adjacent Properties

Properties immediately adjacent to the site consist of the following:

- To the north – Residential
- To the west – Vacant
- To the south – Residential
- To the east – Vacant/Residential

2.14 Current Site Use

The site is currently vacant with no structures on the property.

2.15 Past Land Use and Site History

Based on our review of aerial photographs, Sanborn maps, topographic maps, interviews, and our research, we conclude that the site was used as agriculture land with residential homes since at least 1937. The site has been vacant since sometime between 2009 and 2012. No other past uses have been identified.



2.16 Potable Water Supply

The agency that provides water in the area is the City of Fresno. There is no record of water service being provided to the site.

3.0 GEOLOGY AND HYDROGEOLOGY

3.1 Geology

The subject site is located in the central San Joaquin Valley, which comprises the southern half of the Great Valley geomorphic province. The valley is a westward-titling trough which forms a broad alluvial fan, approximately 200 miles long and 50 to 70 miles wide, where the eastern flank is broad and gently inclined, as opposed to the western flank which is relatively narrow (Bartow, 1991; Page, 1968). The Central Valley consists of the Great Valley Sequence, overlain by Cenozoic alluvium. Underlying the Great Valley Sequence are the Franciscan Assemblage to the west and the Sierra Nevada batholith to the east (Bailey, Irwin, and Jones, 1964).

The Franciscan Assemblage, made up of deformed and high pressure and low temperature metamorphosed mafic and ultramafic rocks, was formed around the Late Jurassic through the Miocene (160 to about 20 million years ago) by the offscraping of rocks from a subducting plate dipping to the east (Wakabayashi, 1992; Wakabayashi, 2010).

The Sierra Nevada started to form during the Early Jurassic (around 200 million years ago) when the Farallon Plate began subducting under the North American Plate. This subduction resulted in several orogenies, or mountain building events, that created the granitic Sierra Nevada Batholith deep below the surface. During the Miocene (around 10 million years ago), vertical movement along the Sierra Nevada Frontal Fault Zone (part of the Eastern California Shear Zone) began to uplift the Sierra Nevada. This uplift and erosion exposed the batholiths to the surface. From the Pleistocene (commonly known as the last Ice Age) to the present, glaciers have been carving out many parts of the Sierras. The current uplift of the Sierra Nevada is 1 - 2mm per year (Hammond, et al. 2012).

The Great Valley Sequence is a 40,000 foot sequence of marine shale, sandstone, and conglomerate beds, deposited in a deep marine environment during the Late Jurassic through the Cretaceous (150 – 65 million years ago). Overlying the Great Valley Sequence is several thousand feet of Cenozoic alluvium, deposited by: streams and rivers draining from the mountains and creating alluvial fans; by lakes that covered parts of the valley floor from time to time; flooding; and marsh environments (Page, 1986). In some places, it is thousands of feet thick, and more than half of this thickness is composed of fine grained fluvial and lacustrine deposits. Holocene deposition consists mainly of episodic deposition of alluvial sediments (Bartow, 1991; Page, 1986). The project site is situated on Quaternary fan deposits that are several hundred feet deep.

3.2 Hydrogeology

The site is located within the Kings Subbasin within the San Joaquin Valley Groundwater Basin. The Kings Subbasin is bounded by the Madera Subbasin at the north, at the south by the Tulare Lake Subbasin, at the



east by the crystalline rock of the Sierra Nevada, and at the west by the Westside and Delta-Mendota Subbasins. The primary recharge source to the area is river and stream seepage, deep percolation of irrigation water, canal seepage, and intentional recharge (Groundwater Bulletin 118, 2003).

According to Groundwater Contour Maps available at California Department of Water Resources Sustainable Groundwater Management Act (SGMA) website, depth to groundwater in Spring 2020 was approximately 80 feet below ground surface.

The subject site is located within a shaded area of Zone X which is define as “areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.”

4.0 RESULTS OF RECORDS SEARCH

4.1 Aerial Photograph Review

1937 The site is occupied by agricultural land on the western portion with a residential home and associated farm buildings. Seven homes are located at the northeast corner of the site. Near the center of the site, a circular object and several structures are present.

Properties surrounding the site consist of agriculture land with associated buildings.

1946 There is no significant change to the site and surrounding properties from the 1937 photograph.

1950 The area around the circular structure appears to have been graded.

There is no significant change to the surrounding sites from the 1946 photograph.

1957 There is no significant change to the site and surrounding properties from the 1950 photograph.

1962 There is no significant change to the site and surrounding properties from the 1957 photograph.

1967 There is no significant change to the site and surrounding properties from the 1962 photograph.

1973 Only five homes are present at the northeast corner of the site.

Residential homes are being constructed to the north and northwest of the site.

1979 A basin is now present near the center of the site.



Residential homes are now present to the north, northwest, and northeast of the site.

1984 There is no significant change to the site from the 1979 photograph.

More residential homes are present to the northeast of the site.

1987 There is no significant change to the site and surrounding properties from the 1984 photograph.

1998 Only one home is present at the northeast corner of the site.

Residential homes are now present to the south of the site. Storey Elementary School has been constructed to the southeast of the site.

2006 There is no significant change to the site from the 1998 photograph.

Residential homes are being constructed to the east of the site. Terronez Middle School has been constructed to the southwest of the site. In addition, Fresno Pacific University has been constructed to the northwest of the site.

2009 There is no significant change to the site from the 2006 photograph.

More residential homes are present to the east of the site.

2012 The site is now vacant.

There is no significant change to the surrounding sites from the 2009 photograph.

2016 There is no significant change to the site and surrounding properties from the 2012 photograph.

Copies of the aerial photographs are included with this report.

4.2 Sanborn Map Review

The Sanborn Library collection was searched by EDR. No maps covering the project site were found.

4.3 Topographic Map Review

Topographic maps dating from 1923 to 2012 were reviewed for indications of past land use at the subject site. The 1923 map indicates the site is located to the southeast of the City of Fresno limits, south of a Southern Pacific Rail Line. In addition, an "Experimental Farm" is present onsite. Subsequent maps from 1946 through 2012 shows the expansion of Fresno to surround the site. The "Experimental Farm" was removed from the site sometime between 1923 and 1946. No past uses other than that described in Section 2.10 of this report were identified for the subject property.



4.4 Governmental Agency Database Review

A search of available government databases was conducted for RMA GeoScience, Inc. by EDR, an information retrieval service which identifies current and historical environmental risk management information for a specific site (Target Property) and surrounding area. The search included the area within a one mile radius of the site. The search radius used meets or exceeds the standard search distance adopted by ASTM-E:1527-13. Copies of the EDR reports are included with this report. The following is an abridged list of environmental databases that were searched by EDR:

Federal

- * Proposed National Priorities List (NPL)
- * Delisted National Priorities List (DNPL)
- * Federal Superfund Liens
- * Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS)
- * Federal Facility Site Information listing
- * CERCLIS No Further Remedial Action Planned (CERCLIS-NFRAP)
- * Corrective Action Report (CORRACTS)
- * RCRA Treatment Storage and Disposal
- * RCRA-LQG RCRA - Large Quantity Generators
- * RCRA-CESQG RCRA - Conditionally Exempt Small Quantity Generator
- * US ENG CONTROLS Engineering Controls Sites List
- * US INST CONTROL Sites with Institutional Controls
- * LUCIS Land Use Control Information System
- * US BROWNFIELDS A Listing of Brownfields Sites
- * Emergency Response Notification System (ERNSCA)
- * National Pollutant Discharge Elimination System-Region 9 (NPDSR09)
- * PCB Activity Database
- * Open Dump Inventory (ODI)
- * Toxics Release Inventory (TRI)

State

- * Above Ground Storage Tanks (ABST)
- * INDIAN LUST Leaking Underground Storage Tanks on Indian Land
- * INDIAN UST Underground Storage Tanks on Indian Land
- * FEMA UST Underground Storage Tank Listing
- * RESPONSE State Response Sites
- * Solid Waste Information System (SWIS)
- * VCP Voluntary Cleanup Program Properties
- * INDIAN VCP Voluntary Cleanup Priority Listing
- * Clandestine Drug Labs (CDL)
- * State Brownfields Properties Calsites Database
- * California Hazardous Material Incident Report System (CHMIRS)
- * Dry Cleaner Facilities
- * State Cortese List



- * California Dept. of Toxic Substances Control Deed Restrictions (DTSCDR)
- * California Department of Toxic Substances Control - Envirostor

Local

- * Well Investigation Program Case List
- * CDEBRIS REGION 9 Torres Martinez Reservation Illegal Dump Site Locations
- * ODI Open Dump Inventory
- * WMUDS/SWAT Waste Management Unit Database
- * HAULERS Registered Waste Tire Haulers Listing
- * INDIAN ODI Report on the Status of Open Dumps on Indian Lands
- * HIST Cal-Sites Historical Calsites Database
- * SCH School Property Evaluation Program
- * Toxic Pits Toxic Pits Cleanup Act Sites
- * CDL Clandestine Drug Labs
- * US HIST CDL National Clandestine Laboratory Register
- * LIENS 2 CERCLA Lien Information
- * LIENS Environmental Liens Listing
- * DEED Deed Restriction Listing

4.4.1 Target Property Search Results

The subject site was listed in the following databases searched.

Site Name	Address	Databases	Distance (miles)
Ohanesian Property	2122 South Peach Avenue	CUPA LISTINGS	0.000

Records for 2122 South Peach Avenue (APN 481-020-47) indicate that during the demolition of an above ground concrete structure, a heavy tar-like substance was encountered. The owners, the John Ohanesian Estate, requested an investigation due to this discovery. Willbanks Environmental Consulting, Inc. (WEC) performed 16 soil borings: four on June 26, 2015 and 12 on September 14, 2015. Soil samples were taken and tested for benzene, ethylbenzene, naphthalene, toluene, total xylenes, p- & m- xylenes, o- xylenes, and crude oil. Constituents such as BTEX and naphthalene that display higher human health risk were not detected. The average concentrations of crude oil are less than the 10,000 mg/kg TPH_{mo}, which is the Environmental Screening Level (ESL) for human health risk in a commercial setting. Subsequently, the California Regional Water Quality Control Board issued a letter on December 23, 2015 indicating no further action was required.

In addition, documents provided by KB Home Central California indicate in 2018 Pacific Gas & Electric (PG&E) hired contractors to perform horizontal borings on or near 2121 South Willow Avenue (APN 481-020-01). One of the contractors dumped drilling spoils on the property without permission. PG&E hired a testing lab, HydroChemPSC, to test the soils and characterize them for disposal. The soil was removed and clean fill was brought back on to the property in place of the removed soils. Prior to removal, the drilling spoils were analyzed for California Assessment Metals (CAM 17) and Total Petroleum Hydrocarbons as referenced to diesel, gasoline, and motor oil (TPH-d, TPH-g, and TPH-mo, respectively). The test results indicated that the drilling spoils were within the Tier 2 ESLs for a residential subdivision, with the exception



of one sample for TPH-d. A review of the HydroChem PSC documents by WEC found that the incident required no further action as the soils were removed and clean fill was brought in.

4.4.2 Surrounding Sites Search Results

The following sites listed by EDR within a mile radius of the site that have or have had known releases of contaminants to the environment are listed in the table below.

Site Name	Address	Databases	Distance (miles)
USDA Agriculture Research Service	2221 South Peach Avenue	CUPA LISTINGS	0.011
Martin Dedekian	2178 South Willow Avenue	SWEEPS UST, HIST UST, CA FID UST	0.018
Fruit Genetics & Breeding Research/USDA ARS/City of Fresno Parks	2021 South Peach Avenue	HIST UST, SEMES-ARCHIVE, RCRA-SQG, DOCKET HWC, SWEEPS UST, CA FID UST, CRCA NONGEN/NLR, FINDS, ECHO, CUPA LISTINGS, LUST, CORTESE, HIST CORTESE, CERS	0.098
Servpro of Fresno South	5771 East Woodward Avenue	EDR HIST CLEANER	0.105
Pilibos Residence	1919 South Willow Avenue	CUPA LISTINGS	0.161
Best Auto Service	2363 South Timmy Avenue	CUPA LISTINGS	0.162
Fresno Pacific College	1818 South Willow Avenue	CUPA LISTINGS, SWEEPS UST	0.197
City of Fresno Well 164-1 & 164-2	1818 South Willow Avenue	HWTS, CUPA LISTINGS, HAZNET, CERS	0.197
Planned Southeast School Site	Southwest Corner of East Church and South Peach Avenues	ENVIORSTOR, SCH	0.346
Church & Orangewood Proposed School Site	Southwest Corner of East Church and South Orangewood Avenues	ENVIORSTOR, SCH	0.443

USDA Agriculture Research Service, 2221 South Peach Avenue

This site is located 0.011 miles to the north of the property and is listed in the CUPA LISTINGS database for underground storage tanks. According to the records obtained, on March 9, 1990, a 550 gallon underground storage tanks were removed from the site by the Gentz Construction Company. Soil samples were taken beneath the tanks by Twining Laborites, Inc. and tested for benzene, toluene, ethylbenzne, xylene, TPH-gasoline, and TPH-diesel. Test results indicated the levels were below the detection limit. The Fresno County Department of Health subsequently closed the site on March 27, 1990.

Due to this information and Fresno County's closure of the site, we therefore conclude that this site is not a recognized environmental condition (REC) with respect to the subject site.



Martin Dedekian, 2178 South Willow Avenue

This site is located 0.018 miles to the west of the property and is listed in the SWEEPS UST, HIST UST, and CA FID UST databases for underground storage tanks. According to the records obtained, a 550 gallon tank for regular motor vehicle fuel was installed on the site prior to 1988. No records were found indicating any spills or releases.

Due to this information, we therefore conclude that this site is not a recognized environmental condition (REC) with respect to the subject site.

Fruit Genetics & Breeding/USDA ARS/City of Fresno Parks, 2021 South Peach Avenue

This site is located 0.098 miles to the northeast of the property and is listed in the HIST UST, SEMS-ARCHIVE, RCRA-SQG, DOCKET HWC, SWEEPS UST, CA FID UST, RCRA NONGEN/NLR, FINDS, ECHO, CUPA LISTINGS, LUST, CORTESE, HIST CORTESE, and CERS database for underground storage tanks. According to the records obtained, on May 15, 1995, a 5 underground storage tanks used to store heating oil were removed from the site by Kroeker, Inc.: three 300 gallon tanks and two 150 gallon tanks. Soil samples were taken beneath the tanks by Krazan & Associates, Inc. and tested for TPH-diesel and total recoverable petroleum hydrocarbons (TRPH). Test results indicated the levels were below the detection limit beneath Tanks 1, 2, and 3, while there were high concentrations of TPH-diesel and TRPH beneath Tanks 4 and 5. The site was further remediated in November 1995 and January 1996 by Kroeker, Inc. with Krazan sampling and testing the soils. The impacted soil was excavated, stockpiled, and removed from the site. On February 9, 1996, clean soil was brought in by Kroker, Inc., placed in the excavated areas, and wheel-rolled compacted. The Fresno County Department of Health subsequently closed the site on April 4, 1996.

Due to this information and Fresno County's closure of the site, we therefore conclude that this site is not a recognized environmental condition (REC) with respect to the subject site.

Servpro of Fresno South, 5771 East Woodward Avenue

This site is located 0.105 miles to the northeast of the property and is listed in the EDR HIST CLEANER database. According to the records obtained, the site was occupied by a drycleaners from 1978 to 1980. No other records were found.

Due to this information, we therefore conclude that this site is not a recognized environmental condition (REC) with respect to the subject site.

Pilibos Residence, 1919 South Willow Avenue

This site is located 0.161 miles to the north of the property and is listed in the CUPA LISTINGS database for underground storage tanks. According to the records obtained, on July 16, 2001, two underground storage tanks were removed from the site by Statewide Excavation, Inc.: one 6,000 gallon gasoline tank and one 8,000 gallon tank with unreported contents. Soil samples were taken beneath the tanks by Twining Laborites, Inc. and tested for benzene, toluene, ethylbenzne, xylene, methyl tertiary-butyl ether (MTBE), TPH-gasoline, and TPH-diesel. Test results indicated the levels were below the detection limit. The Fresno County Department of Health subsequently closed the site on August 13, 2001.



Due to this information and Fresno County's closure of the site, we therefore conclude that this site is not a recognized environmental condition (REC) with respect to the subject site.

Best Auto Service, 2363 South Timmy Avenue

This site is located 0.162 miles to the south of the property and is listed in the CUPA LISTINGS database. According to the records obtained, Best Auto Service is located at 4523 East Belmont Avenue, while the owner, Mr. Ge Moua, resides at 2363 South Timmy Avenue.

Due to this information, we therefore conclude that this site is not a recognized environmental condition (REC) with respect to the subject site.

Fresno Pacific College, 1818 South Willow Avenue

This site is located 0.197 miles to the northwest of the property and is listed in the CUPA LISTINGS and SWEEPS UST databases for underground storage tanks. According to the records obtained, on March 25, 1993, two underground storage tanks were removed from the site by Statewide Excavation, Inc.: one 300 gallon gasoline tank and one 500 gallon diesel tank. Soil samples were taken beneath the tanks by Twining Laborites, Inc. and tested for benzene, toluene, ethylbenzene, xylene, TPH-gasoline, and TPH-diesel. Test results indicated the levels were below the detection limit. The Fresno County Department of Health subsequently closed the site on April 29, 1993.

Due to this information and Fresno County's closure of the site, we therefore conclude that this site is not a recognized environmental condition (REC) with respect to the subject site.

City of Fresno Well 164-1 & 164-2, 1818 South Willow Avenue

This site is located 0.197 miles to the northwest of the property and is listed in the HWTS, CUPA LISTINGS, HAZNET, and CERS databases. According to the records obtained, the site is permitted as a hazardous materials handler for the onsite wells. No other records were found.

Due to this information, we therefore conclude that this site is not a recognized environmental condition (REC) with respect to the subject site.

Planned Southeast School Site, Southwest Corner of East Church & South Peach Avenues

This site is located 0.346 miles to the south of the property and is listed in the ENVIROSTOR and SCH databases.

According to the records obtained, on Jan 27, 2016, Consultant for Fresno USD (District) submitted an EOP application for DTSC oversight of a PEA. The Site is located southwest of the intersection of E. Church and S. Peach Avenues in the city of Fresno, Fresno County, California. The Site consists of five parcels having Fresno County Assessor's Parcel Numbers (APNs) 481-090-16, -18, -23ST, -27, and -28 and an approximately 900 foot long section of the Central Canal operated by the Fresno Irrigation District.

Parcel 481-090-16 is owned by Donald and Joyce Shafer and has a house on it. The street address is 5126 E. Church Avenue.



Parcel 481-090-18 is owned by Curtis Thiesen and has a house on it. The street address is 5120 E. Church Avenue.

Parcel 481-090-23ST is owned by FUSD and has an existing FUSD school on it (Phoenix Secondary School). The street address is 5090 E. Church Ave.

Parcel 481-090-27 is owned by Bedrock Land Development, Inc., currently vacant, former house. The address was 5160 E. Church Ave.

Parcel 481-090-28 is owned by Bedrock Land Development, Inc., is fallow cropland. former house. The address was 5142 E. Church Avenue.

Historically, as of 1937 the Site was used as cropland, divided into two portions by an irrigation canal, with two rural residences, one on each side of a canal. The eastern house had two additional structures (possible shop and barn) located approximately 100 feet south of the house. By 1972, two additional houses were located west of the canal. By 1984, another house was located east of the canal. According to the Phase I, two USTs were located on the Site. One was a 550-gallon gasoline UST located at 5090 E. Church Avenue (parcel 481-090-23ST, the existing school). According to the Fresno County Environmental Health Division, this UST was removed from the Site in 1993. The second on-site UST was a 500-gallon gasoline UST located in 1985 at 5142 E. Church Avenue (parcel 481-090-28, east of the canal). No additional information regarding this UST was found. Currently, the Site contains, from west to east, an active school campus, two houses, an irrigation canal, and fallow cropland.

Currently, the Site currently contains, from west to east, an active school campus, two houses, an irrigation canal, and fallow cropland. The Site is bordered to the north by East Church Avenue followed by residential subdivisions; to the east by South Peach Avenue followed by Edith B. Storey Elementary School and residential subdivisions; to the south by a mobile home park, agricultural land and rural residential property; and to the west by rural residential property followed by South Willow Avenue.

The District is considering building two adjoining school campuses on the Site. FUSD is anticipating one or both of the schools to open as soon as August 2019, contingent on funding. The two schools would contain up to approximately 135 classrooms and 3,250 students at full capacity. Water and sewer services for the school will be provided by the municipal systems of the City of Fresno.

On Feb 25, 2016, DTSC received two bound and two CD copies of the Draft PEA Workplan. On Mar 16, 2016, DTSC issued comments on the draft PEA Workplan. On Mar 29, 2016, DTSC received e-copies of the revised PEA Workplan. On Mar 30, 2016, DTSC approved the revised PEA Workplan for implementation. PEA fieldwork is scheduled for the week of April 11, 2016.

On Jun 1, 2016, DTSC received two bound and two CDs of the draft PEA Report. The public comment period will run from Jun 1st through Jun 30th, and the public hearing will be on Jun 15th. The public notice was published in the local newspaper, Fresno Bee on May 25, 2016.

On Jul 7, 2016, DTSC issued comments on the draft PEA Report. On Jul 14, 2016, DTSC received final PEA Report. The results of the PEA indicate that elevated chlordane concentrations were identified in composite soil sample AB-0.5' (EH-1AB, EH-2AB, EH-3AB, and EH-4AB) near the existing house on Parcel 16 (west of



the canal). OCP analyses were conducted on the four discrete samples (EH-1AB, EH-2AB, EH-3AB, and EH-4AB) and also on discrete surface soil sample EH-12-0.5' collected approximately 8 feet east of the house adjacent to the concrete sidewalk that extends along the eastern side of the house. In addition, step-out soil sampling was performed at four additional locations (EH-14, EH-15, EH-16, and EH-17) adjacent to the east side of the house. Two of these discrete samples (EH-2AB-0.5' and EH-3AB-0.5') contained chlordane concentrations exceeding the DTSC-recommended residential screening level of 430 micrograms per kilogram (ug/kg), but none of the follow-up soil samples contained chlordane concentrations exceeding the screening level. The maximum detected chlordane concentration was 1,670 ug/kg, which is greater than the screening level. Chlordane was not detected in the composite subsurface soil sample AB-2.5', which consisted of subsurface soil samples collected at 2.5 feet bgs at the four locations around the house. Based on the analyzed soil samples, it appears that only an isolated and limited volume, less than one cubic yard, of soil adjacent to the house contains chlordane at concentrations exceeding the residential screening level. The calculated cancer risk for chlordane from this isolated location was calculated at 3.9×10^{-6} .

In addition, one of three replicate samples collected following the Integrated Sampling Methodology approach, near the former structures (Parcel 28, east of the canal) resulted in a chlordane detection of 1.1 milligrams per kilogram (mg/kg) which exceeded the DTSC residential soil screening value of 0.43 mg/kg. However, based on the results of the two other replicate samples collected in this decision unit of 0.086 mg/kg and 0.11 mg/kg, results of OCP sample analysis from the agricultural areas associated with Parcel 28, and the estimated cancer risk for chlordane of 2.5×10^{-6} , DTSC has determined that this value represents an incremental increase over the DTSC threshold of one in one million (1×10^{-6}) risk.

The PEA Report concludes that all other data were not reported at concentrations exceeding regulatory residential screening levels or naturally occurring background levels. Of the chemicals of potential concern (COPC), only chlordane had an exposure point concentration (EPC) that exceeded, or even approached, the selected carcinogenic screening levels. The estimated excess cancer risk for each COPC was calculated by dividing the EPC by the screening level and multiplying by $1E-06$ (the cancer risk level estimated by the screening level). The total cumulative calculated excess cancer risk for all of the COPCs is 5.1×10^{-6} . Excluding the isolated and estimated limited volume associated with the detected chlordane concentration of 1,670 ug/kg, the total cumulative calculated excess cancer risk for all of the COPCs would be 1.2×10^{-6} . In addition, none of the COPCs were detected in soil samples at concentrations exceeding the selected non-cancer screening levels, indicating that no significant concern is present. The hazard index was calculated by summing the ratios of EPCs to screening levels for all of the COPCs. The calculated hazard index is 0.68, which is below the cumulative screening level of 1.0, indicating no significant cumulative concern. Based on the findings reported in the PEA, the Site has been adequately characterized with respect to the COPCs. The PEA recommends that DTSC issue a "No Further Action" decision for the Site.

Based on review of the PEA Report, neither a release of hazardous material nor the presence of a naturally occurring hazardous substance which would pose a threat to public health or the environment under unrestricted land use was indicated at the Site. Therefore, DTSC concurs with the conclusion of the PEA Report that further environmental investigation of the Site is not required and hereby approves the PEA Report. On Jul 18, 2016, DTSC concurred with the recommendation of the PEA Report and issued a 'No Further Action' determination for the site.

Due to the DTSC's decision that the site needs no further action, we therefore conclude that this site is not a recognized environmental condition (REC) with respect to the subject site.



Church & Orangewood Proposed School Site, Southwest Corner of East Church & South Orangewood Avenues

This site is located 0.443 miles to the southeast of the property and is listed in the ENVIROSTOR and SCH databases.

According to the records obtained, on August 3, 2018, the District submitted an EOP application. The PEA scoping meeting was held on August 22, 2018. Fully executed EOA sent to District via regular mail on September 18, 2018.

The approximately 5-acre property is owned by the Fresno Unified School District (District) and is located at the southwest corner of East Church Avenue and South Orangewood Drive in the City of Fresno, Fresno County, California (Site). The District anticipates the proposed high school will open in 2019 and will include 17 classrooms and accommodate 400 students at full capacity. Water and sewer services will be provided by the municipal systems of the City of Fresno.

On September 17, 2018, DTSC received the draft PEA Workplan for review. DTSC approved the PEA Workplan as final in a letter dated October 3, 2018. The PEA Workplan includes activities to investigate the Site for potential impacts from organochlorine pesticides (OCPs), arsenic, and lead associated with former agricultural use that may pose a threat to human health or the environment. Fieldwork was conducted on 23 October 2018.

DTSC received the PEA Report for review and comment on November 13, 2018. On December 4, 2018, DTSC concurred with the adequacy of the PEA Report pending review of public comment. DTSC understands that the District intends to make the PEA Report available for public review and comment concurrent with DTSC review pursuant to Option A (Education Code section 17213.1, subdivision (a)(6)(A)).

On May 16, 2019, AECOM on behalf of the District, notified DTSC that it had complied with all public review and comment requirements for the PEA Report pursuant to Education Code section 17213.1(a)(6)(A). The District made the PEA Report available for public review and comment from March 22, 2019 through May 6, 2019, and a public hearing was held on May 1, 2019. No written comments were received during the comment period. Two community members expressed support for the school construction during the public hearing but did not address any of the information presented in the PEA Report.

The PEA investigated the soil at the Site for arsenic, lead, and OCPs from prior agricultural activities that may pose a threat to human health or the environment. The maximum arsenic concentration was 2.7 mg/kg which is below the background concentration for the Site (5.7 mg/kg). The maximum lead concentration was 6.6 mg/kg which is substantially below the DTSC-modified screening level of 80 mg/kg. OCPs were not detected in any of the soil samples that were analyzed. The PEA Report recommends that no further action is needed before the school occupancy occurs.

Based on review of the PEA Report, neither a release of hazardous material nor the presence of a naturally occurring hazardous substance which would pose a threat to public health or the environment under unrestricted land use was indicated at the Site. DTSC approved the Site for No Further Action in a letter dated 17 May 2019.



Due to the DTSC's decision that the site needs no further action, we therefore conclude that this site is not a recognized environmental condition (REC) with respect to the subject site.

4.5 City Directory Review

A search of available city directories at five year intervals from 1958 to 2017 was conducted for RMA GeoScience, Inc. by EDR, an information retrieval service which identifies current and historical environmental risk management information for a specific site (Target Property) and surrounding area. The following listings for the historical address of 2108 South Peach Avenue, 2122 South Peach Avenue, and 2121 South Willow Avenue were identified.

2108 South Peach Avenue (APN 481-020-31)

- 2004 Rose Bales
- 2002 Not Listed
- 1990 Not Listed
- 1986 Not Listed
- 1980 Vacant
- 1970 Bales, Donald
- 1965 Bales, Donald
- 1962 Bales, Donald 0 CL

2122 South Peach Avenue (APN 481-020-47)

- No listings found

2121 South Willow Avenue (APN 481-020-01)

- 2017 Not Listed
- 2014 John Ohanesian
- 2009 Not Listed
- 2004 Not Listed
- 2002 Ohanesian, John S El + A
- 1999 Not Listed
- 1996 Ohanesian, John
- 1994 Ohanesian, John
- 1990 Ohanesian, John
- 1986 Ohanesian, John
- 1980 Ohanesian, John
- 1975 Ohanesian, John
- 1970 Ohanesian, John
- 1965 Ohanesian El Iz Mos
- 1962 Ohanesian, John 0 CL
- 1958 Not Listed

No other past uses were identified for the subject property.



4.6 State and Local Agencies

California Department of Conservation Division of Oil and Gas and Geothermal Resources

We searched the online databases that are maintained by the California Department of Conservation - Division of Oil and Gas regarding any current or abandoned oil wells located on or near the subject site. There are no oil wells listed at the subject site.

Fresno County Building Department

A written request to review available records for the site was submitted to this agency on February 2, 2021. No records were found for the site.

Fresno County Department of Public Health, Environmental Health

The online portal was accessed to review available records for the site on February 15, 2021. Records found pertaining to the site are discussed in Section 4.4.1.

City of Fresno

A written request to review available records for the site was submitted to this agency on February 2, 2021. No records were found for the site.

San Joaquin Valley Air Pollution Control District

A written request to review available records for the site was submitted to this agency on February 2, 2021. No records were found for the site.

State Water Resources Control Boards

A written request to review available records for the site was submitted to this agency on February 2, 2021. We specified that we were looking for records of aboveground and underground Storage tanks, site assessment and cleanup files, and any other environmental records such as violations or enforcement orders for the APNs 481-020-01, 481-020-31, and 481-020-047 in Fresno, CA. No records were found for the site.

4.07 Data Gaps

No significant data gaps were encountered that would affect our ability to identify recognized environmental conditions in connection with the site.



5.0 INTERVIEWS

5.01 Present Owner

We communicated with Mr. Steve Ohanesian, current owner of the APNs 481-020-01 and 481-020-47, by email on January 27, 2020. He told us he was aware that structures were present on the site in the past, that at some point a UST had existed onsite, that there was documentation of a spill, leak, or other release of chemical onsite that had been removed by Caglia Demolition, and that the site has been used as a brick factory prior to becoming farm land. Mr. Ohanesian indicated all documents he had were turned over to KB Home Central California. In addition, we communicated with Ms. Rose Avedisian, current owner of APN 481-020-31, by email on January 28, 2021. She told us that a single family home with a detached garage had been present onsite at some point and that there was a household garbage pit near the northeast corner of the site. Copies of the questionnaires with Mr. Ohanesian's and Ms. Avedisian's answers are included with this report. We also communicated with Mr. Zach Gomes with KB Home Central California by email on January 26, 2021 who was unaware of any additional environmental concerns.

6.0 FINDINGS

RMA GeoScience performed a Phase I ESA for the Ohanesian Estates, 2121 South Willow Avenue, 2108 South Peach Avenue, and 2122 South Peach Avenue, APNs #481-020-01, 481-020-31, and 481-020-47 in Fresno, California in accordance with KB Home Central California authorization.

6.1 Onsite

Historically the site was used as agriculture land with various residential homes since at least 1937. No other past uses have been identified. Currently the site is vacant.

While the site has had two documented instances of leaks, spill, or releases of environmental contaminants, due to the California Regional Water Quality Control Board and WEC indicating no further action required, we therefore conclude that the site is not a recognized environmental condition (REC).

6.2 Offsite

We reviewed records pertaining to ten sites identified in various databases within a one mile radius of the site. Due to the closure of these sites, we therefore conclude that these sites are not recognized environmental conditions (REC) with respect to the subject site.



7.0 CONCLUSIONS

7.1 Conclusions

RMA GeoScience, Inc. has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E:1527-13 for the Ohanesian Estates, 2121 South Willow Avenue, 2108 South Peach Avenue, and 2122 South Peach Avenue, APNs #481-020-01, 481-020-31, and 481-020-47 in Fresno, California. Any exceptions to or deletions from this practice are described in this report.

This assessment has revealed while the site has had two documented instances of leaks, spill, or releases of environmental contaminants, due to the California Regional Water Quality Control Board and WEC indicating no further action required, we therefore conclude that the site is not a recognized environmental condition (REC). However, it is recommended that prior to development, the site be tested for agricultural pesticides and the trash/debris be removed.

8.0 QUALIFICATIONS

The following statements are provided as specified by ASTM E 1527-13 and 40 CFE 312.21(d):

“We declare that, to the best of my professional knowledge and belief, we meet the definition of Environmental professional as defined by §312.10 of 40 CFR 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.”

9.0 LIMITATIONS

This Phase I Environmental Site Assessment was completed in accordance with generally accepted industry practice for determining the likelihood of the presence of hazardous substances at or beneath the site. Information presented in this report is based on visual observations, limited research, review of maps and literature, experience, and professional judgment. This assessment is not, and should not be construed as, a warranty or guarantee concerning the presence or not of hazardous substances which may affect the property. All discovered information has been disclosed and a good faith effort has been made to consult pertinent sources.

This study and report have been prepared on behalf and for the exclusive use of KB Home Central California, and solely for use in an environmental evaluation of the subject site. This report and its findings shall not, in whole or in part, be disseminated or conveyed to any other party, nor used by any other party in whole or in part, without prior written consent of RMA GeoScience, Inc. and KB Home Central California. However, RMA GeoScience, Inc. acknowledges and agrees that the report may be conveyed to the Buyer, Seller and Lender associated with the financing of the property.



10.0 REFERENCES

Bartow, J.A., 1991, The Cenozoic Evolution of the San Joaquin Valley, California, USGS Professional Paper 1501.

California Department of Water Resources Website:

<https://sgma.water.ca.gov/webgis/?appid=SGMADataViewer#gwlevels>

California Department of Water Resources, 1980, updated 2003, Groundwater Bulletin 118

http://www.water.ca.gov/pubs/groundwater/bulletin_118

California Department of Toxic Substance Control Website:

<http://www.envirostor.dtsc.ca.gov>

Federal Emergency Management Agency, Flood Hazard Mapping Website, <http://www.fema.gov/>

Page, R.W., 1986, Geology of the Fresh Ground-Water Basin of the Central Valley, California, U.S. Geological Survey Professional Paper 1401-C.

State Water Resources Control Board Website,

<http://geotracker.swrcb.ca.gov/>

State of California Department of Conservation Division of Oil, Gas and Geothermal Website:

<http://www.conservation.ca.gov/dog/>.



FIGURES

SITE VICINITY MAP

Figure 1



From: Google Earth Pro, September 9, 2019

SITE MAP

Figure 2



Approximate Limits of the Property

From: Google Earth Pro, September 9, 2019



SITE PHOTOGRAPHS



Photograph 1: View onsite from the northeast corner looking southwest.



Photograph 2: Railroad tracks along the northern margin of the site.



Photograph 3: Areas of debris near the northeast corner of the site.



Photograph 4: Areas of debris near the northeast corner of the site.



EDR RADIUS REPORT

Ohanesian Estates

2122 S Peach Ave
Fresno, CA 93725

Inquiry Number: 6356858.2s
February 04, 2021

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
 Please contact EDR at 1-800-352-0050
 with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

2122 S PEACH AVE
FRESNO, CA 93725

COORDINATES

Latitude (North): 36.7203030 - 36° 43' 13.09"
Longitude (West): 119.7229870 - 119° 43' 22.75"
Universal Transverse Mercator: Zone 11
UTM X (Meters): 256802.6
UTM Y (Meters): 4067099.8
Elevation: 307 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5603192 MALAGA, CA
Version Date: 2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140619
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
2122 S PEACH AVE
FRESNO, CA 93725

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	OHANESIAN PROPERTY	2122 S PEACH AVE	CUPA Listings		TP
2	USDA AGRICULTURE RES	2221 S PEACH	CUPA Listings	Higher	56, 0.011, East
A3	MARTIN DEDEKIAN	2178 S WILLOW	SWEEPS UST, HIST UST, CA FID UST	Higher	95, 0.018, West
A4	MARTIN DEDEKIAN	2178 S WILLOW AVE	HIST UST	Higher	95, 0.018, West
B5	FUSD-TERRONEZ MIDDLE	2300 S WILLOW AVE	RCRA NonGen / NLR	Lower	438, 0.083, SW
B6	H.B RESTORATION INC	2300 S WILLOW AVE	RCRA NonGen / NLR	Lower	438, 0.083, SW
C7	FRUIT GENETICS & BRE	2021 S PEACH AVE	HIST UST	Higher	518, 0.098, NE
C8	USDA, ARS	2021 SOUTH PEACH AVE	SEMS-ARCHIVE, RCRA-SQG, DOCKET HWC	Higher	518, 0.098, NE
C9	USDA AGRICULTURE RES	2021 S PEACH	SWEEPS UST, CA FID UST	Higher	518, 0.098, NE
C10	CITY OF FRESNO PARKS	2021 S. PEACH AVENUE	RCRA NonGen / NLR	Higher	518, 0.098, NE
C11	USDA ARS	2021 S PEACH AVE	FINDS, ECHO, CUPA Listings	Higher	518, 0.098, NE
C12	FRUIT GENETICS AND B	2021 S PEACH AVE	HIST UST	Higher	518, 0.098, NE
13	SERVPRO OF FRESNO SO	5171 E WOODWARD AVE	EDR Hist Cleaner	Higher	557, 0.105, NE
14	U.S.D.A. AGRICULTURE	2021 PEACH	LUST, Cortese, HIST CORTESE, CERS	Higher	834, 0.158, NE
15	PILIBOS RESIDENCE	1919 S WILLOW	CUPA Listings	Higher	850, 0.161, NNW
16	BEST AUTO SERVICE	2363 S TIMMY	CUPA Listings	Lower	857, 0.162, South
D17	FRESNO PACIFIC COLLE	1818 S WILLOW	CUPA Listings	Higher	1042, 0.197, NW
D18	FRESNO PACIFIC COLLE	1818 S WILLOW AVE	SWEEPS UST	Higher	1042, 0.197, NW
D19	CITY OF FRESNO WELL	1818 S WILLOW AVE	CUPA Listings, HAZNET, CERS, HWTS	Higher	1042, 0.197, NW
20	PLANNED SOUTHEAST SC	SOUTHWEST CORNER OF	ENVIROSTOR, SCH	Lower	1825, 0.346, South
21	CHURCH & ORANGEWOOD	SW CORNER OF E. CHUR	ENVIROSTOR, SCH	Higher	2339, 0.443, SE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
OHANESIAN PROPERTY 2122 S PEACH AVE FRESNO, CA 93725	CUPA Listings Database: CUPA FRESNO, Date of Government Version: 10/02/2020 Facility Id: FA0284615	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-VSQG..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System

EXECUTIVE SUMMARY

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROLS..... Institutional Controls Sites List

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE..... State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
CPS-SLIC..... Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
UST..... Active UST Facilities
AST..... Aboveground Petroleum Storage Tank Facilities
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing
VCP..... Voluntary Cleanup Program Properties

State and tribal Brownfields sites

BROWNFIELDS..... Considered Brownfields Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT..... Waste Management Unit Database
SWRCY..... Recycler Database
HAULERS..... Registered Waste Tire Haulers Listing
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
ODI..... Open Dump Inventory
IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register

EXECUTIVE SUMMARY

HIST Cal-Sites.....	Historical Calsites Database
SCH.....	School Property Evaluation Program
CDL.....	Clandestine Drug Labs
Toxic Pits.....	Toxic Pits Cleanup Act Sites
CERS HAZ WASTE.....	CERS HAZ WASTE
US CDL.....	National Clandestine Laboratory Register
PFAS.....	PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

CERS TANKS.....	California Environmental Reporting System (CERS) Tanks
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Local Land Records

LIENS.....	Environmental Liens Listing
LIENS 2.....	CERCLA Lien Information
DEED.....	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS.....	Hazardous Materials Information Reporting System
CHMIRS.....	California Hazardous Material Incident Report System
LDS.....	Land Disposal Sites Listing
MCS.....	Military Cleanup Sites Listing
SPILLS 90.....	SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS.....	Formerly Used Defense Sites
DOD.....	Department of Defense Sites
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR.....	Financial Assurance Information
EPA WATCH LIST.....	EPA WATCH LIST
2020 COR ACTION.....	2020 Corrective Action Program List
TSCA.....	Toxic Substances Control Act
TRIS.....	Toxic Chemical Release Inventory System
SSTS.....	Section 7 Tracking Systems
ROD.....	Records Of Decision
RMP.....	Risk Management Plans
RAATS.....	RCRA Administrative Action Tracking System
PRP.....	Potentially Responsible Parties
PADS.....	PCB Activity Database System
ICIS.....	Integrated Compliance Information System
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS.....	Material Licensing Tracking System
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER.....	PCB Transformer Registration Database
RADINFO.....	Radiation Information Database
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS.....	Incident and Accident Data
CONSENT.....	Superfund (CERCLA) Consent Decrees
INDIAN RESERV.....	Indian Reservations
FUSRAP.....	Formerly Utilized Sites Remedial Action Program

EXECUTIVE SUMMARY

UMTRA.....	Uranium Mill Tailings Sites
LEAD SMELTERS.....	Lead Smelter Sites
US AIRS.....	Aerometric Information Retrieval System Facility Subsystem
US MINES.....	Mines Master Index File
ABANDONED MINES.....	Abandoned Mines
FINDS.....	Facility Index System/Facility Registry System
ECHO.....	Enforcement & Compliance History Information
DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
UXO.....	Unexploded Ordnance Sites
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN.....	Bond Expenditure Plan
DRYCLEANERS.....	Cleaner Facilities
EML.....	Emissions Inventory Data
ENF.....	Enforcement Action Listing
Financial Assurance.....	Financial Assurance Information Listing
HAZNET.....	Facility and Manifest Data
ICE.....	ICE
HWP.....	EnviroStor Permitted Facilities Listing
HWT.....	Registered Hazardous Waste Transporter Database
MINES.....	Mines Site Location Listing
MWMP.....	Medical Waste Management Program Listing
NPDES.....	NPDES Permits Listing
PEST LIC.....	Pesticide Regulation Licenses Listing
PROC.....	Certified Processors Database
Notify 65.....	Proposition 65 Records
UIC.....	UIC Listing
UIC GEO.....	UIC GEO (GEOTRACKER)
WASTEWATER PITS.....	Oil Wastewater Pits Listing
WDS.....	Waste Discharge System
WIP.....	Well Investigation Program Case List
MILITARY PRIV SITES.....	MILITARY PRIV SITES (GEOTRACKER)
PROJECT.....	PROJECT (GEOTRACKER)
WDR.....	Waste Discharge Requirements Listing
CIWQS.....	California Integrated Water Quality System
CERS.....	CERS
NON-CASE INFO.....	NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS.....	OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS.....	PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT.....	SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ.....	Well Stimulation Project (GEOTRACKER)
HWTS.....	Hazardous Waste Tracking System
MINES MRDS.....	Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historical Auto Stations

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF.....	Recovered Government Archive Solid Waste Facilities List
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EXECUTIVE SUMMARY

RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 10/28/2020 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>USDA, ARS</i> Site ID: 0903879 EPA Id: CA7120090397	<i>2021 SOUTH PEACH AVE</i>	<i>NE 0 - 1/8 (0.098 mi.)</i>	<i>C8</i>	<i>17</i>

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 12/14/2020 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
USDA, ARS EPA ID:: CA7120090397	2021 SOUTH PEACH AVE	NE 0 - 1/8 (0.098 mi.)	C8	17

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. 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. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 10/26/2020 has revealed that there are 2 ENVIROSTOR sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CHURCH & ORANGEWOOD Facility Id: 60002701 Status: No Further Action	SW CORNER OF E. CHUR	SE 1/4 - 1/2 (0.443 mi.)	21	37

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PLANNED SOUTHEAST SC Facility Id: 60002297 Status: No Further Action	SOUTHWEST CORNER OF	S 1/4 - 1/2 (0.346 mi.)	20	34

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
U.S.D.A. AGRICULTURE Database: LUST REG 5, Date of Government Version: 07/01/2008 Database: LUST, Date of Government Version: 09/08/2020 Status: Completed - Case Closed Status: Case Closed Global Id: T0601900555	2021 PEACH	NE 1/8 - 1/4 (0.158 mi.)	14	26

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 3 SWEEPS UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MARTIN DEDEKIAN Status: A Tank Status: A Comp Number: 56590	2178 S WILLOW	W 0 - 1/8 (0.018 mi.)	A3	9
USDA AGRICULTURE RES Comp Number: 1004	2021 S PEACH	NE 0 - 1/8 (0.098 mi.)	C9	21
FRESNO PACIFIC COLLEGE Comp Number: 13113	1818 S WILLOW AVE	NW 1/8 - 1/4 (0.197 mi.)	D18	30

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 4 HIST UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MARTIN DEDEKIAN MARTIN DEDEKIAN Facility Id: 00000056590	2178 S WILLOW 2178 S WILLOW AVE	W 0 - 1/8 (0.018 mi.) W 0 - 1/8 (0.018 mi.)	A3 A4	9 11
FRUIT GENETICS & BRE Facility Id: 00000059014	2021 S PEACH AVE	NE 0 - 1/8 (0.098 mi.)	C7	16
FRUIT GENETICS AND B	2021 S PEACH AVE	NE 0 - 1/8 (0.098 mi.)	C12	25

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 2 CA FID UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MARTIN DEDEKIAN Facility Id: 10008129 Status: A	2178 S WILLOW	W 0 - 1/8 (0.018 mi.)	A3	9
USDA AGRICULTURE RES Facility Id: 10004435 Status: I	2021 S PEACH	NE 0 - 1/8 (0.098 mi.)	C9	21

EXECUTIVE SUMMARY

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/14/2020 has revealed that there are 3 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CITY OF FRESNO PARKS	2021 S. PEACH AVENUE	NE 0 - 1/8 (0.098 mi.)	C10	21
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FUSD-TERRONEZ MIDDLE EPA ID:: CAL000318203	2300 S WILLOW AVE	SW 0 - 1/8 (0.083 mi.)	B5	11
H.B RESTORATION INC EPA ID:: CAC003034291	2300 S WILLOW AVE	SW 0 - 1/8 (0.083 mi.)	B6	14

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 06/22/2020 has revealed that there is 1 Cortese site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
U.S.D.A. AGRICULTURE Cleanup Status: COMPLETED - CASE CLOSED	2021 PEACH	NE 1/8 - 1/4 (0.158 mi.)	14	26

CUPA Listings: A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

A review of the CUPA Listings list, as provided by EDR, has revealed that there are 6 CUPA Listings sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
USDA AGRICULTURE RES Database: CUPA FRESNO, Date of Government Version: 10/02/2020 Facility Id: FA0170542	2221 S PEACH	E 0 - 1/8 (0.011 mi.)	2	9
USDA ARS Database: CUPA FRESNO, Date of Government Version: 10/02/2020 Facility Id: FA0170540	2021 S PEACH AVE	NE 0 - 1/8 (0.098 mi.)	C11	24
PILIBOS RESIDENCE Database: CUPA FRESNO, Date of Government Version: 10/02/2020 Facility Id: FA0275101	1919 S WILLOW	NNW 1/8 - 1/4 (0.161 mi.)	15	29
FRESNO PACIFIC COLLEGE Database: CUPA FRESNO, Date of Government Version: 10/02/2020	1818 S WILLOW	NW 1/8 - 1/4 (0.197 mi.)	D17	29

EXECUTIVE SUMMARY

Facility Id: FA0272850

CITY OF FRESNO WELL	1818 S WILLOW AVE	NW 1/8 - 1/4 (0.197 mi.)	D19	30
Database: CUPA FRESNO, Date of Government Version: 10/02/2020				
Facility Id: FA0283436				

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BEST AUTO SERVICE	2363 S TIMMY	S 1/8 - 1/4 (0.162 mi.)	16	29
Database: CUPA FRESNO, Date of Government Version: 10/02/2020				
Facility Id: FA0276196				

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSTATES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 HIST CORTESE site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
U.S.D.A. AGRICULTURE	2021 PEACH	NE 1/8 - 1/4 (0.158 mi.)	14	26
Reg Id: 5T10000572				

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SERVPRO OF FRESNO SO	5171 E WOODWARD AVE	NE 0 - 1/8 (0.105 mi.)	13	26

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.

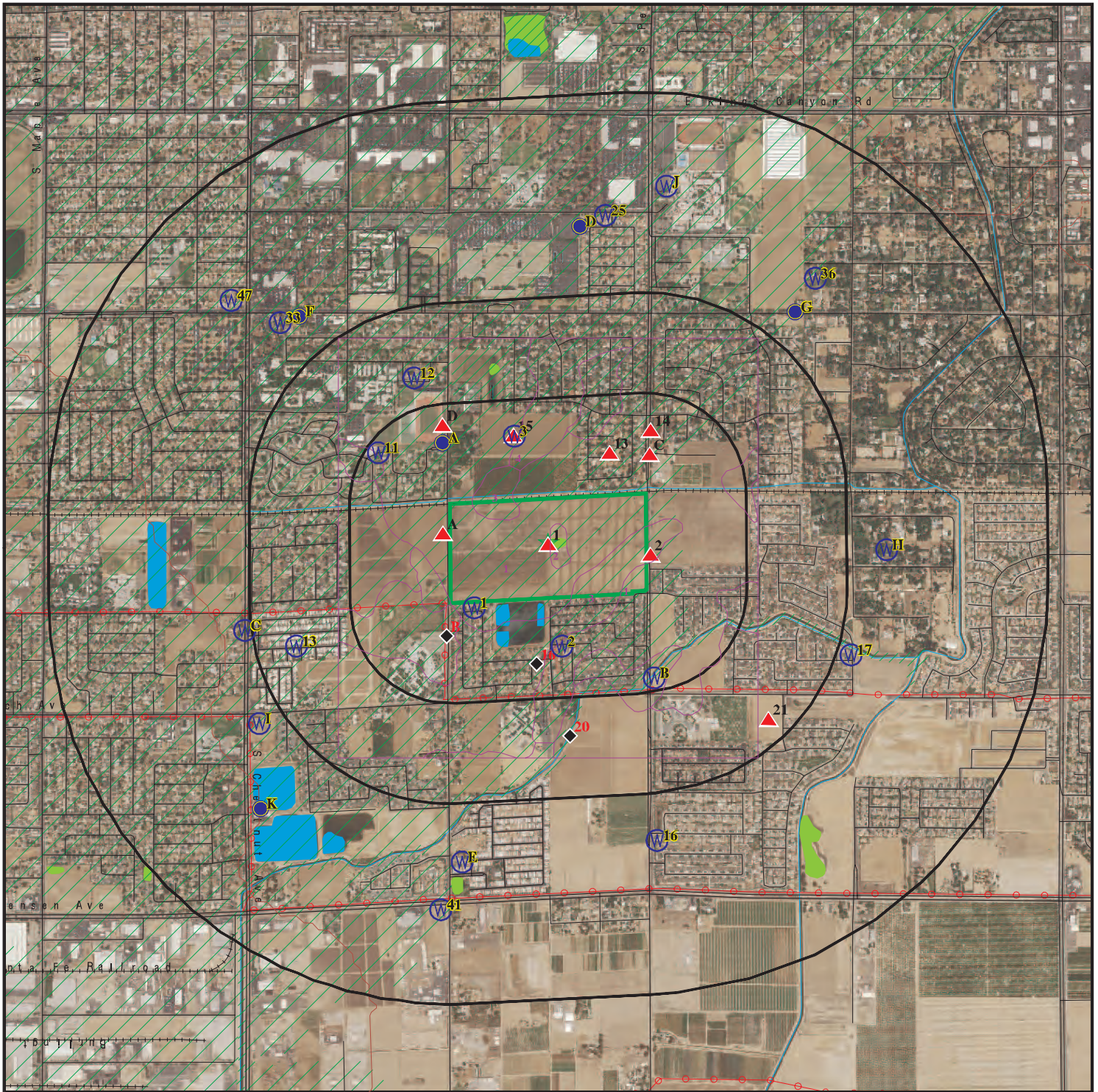
Site Name

Database(s)

KROEKER GREENWASTE CHIPPING/GRINDI
PROPOSED TEMPERANCE ELEMENTARY SCH

CDL
SWF/LF
ENVIROSTOR, SCH

OVERVIEW MAP - 6356858.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

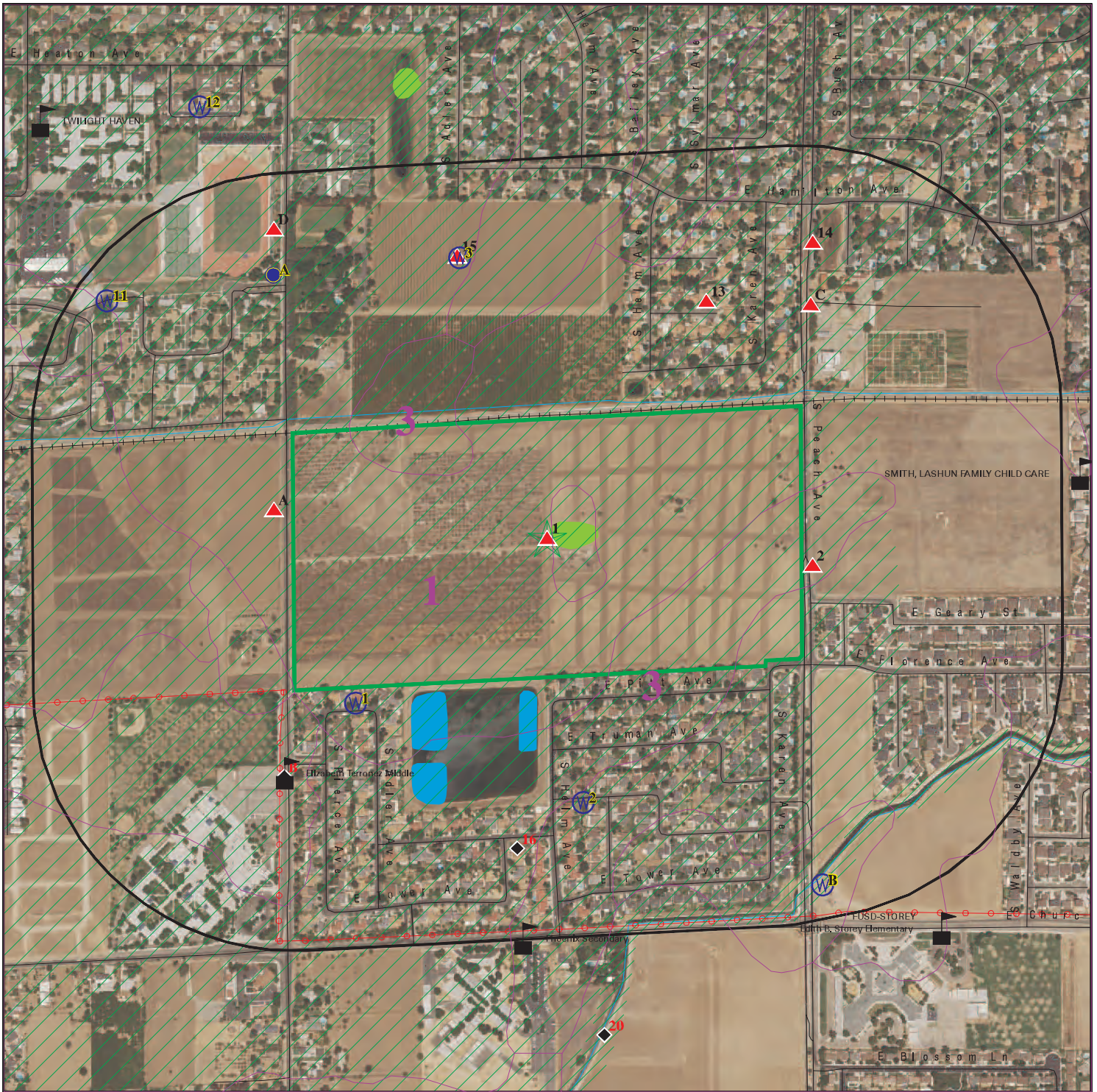
















This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Ohanesian Estates
 ADDRESS: 2122 S Peach Ave
 Fresno CA 93725
 LAT/LONG: 36.720303 / 119.722987

CLIENT: RMA Geoscience
 CONTACT: Megan Stewart
 INQUIRY #: 6356858.2s
 DATE: February 04, 2021 4:59 pm

DETAIL MAP - 6356858.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites
-  Indian Reservations BIA
-  Power transmission lines
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  National Wetland Inventory
-  State Wetlands
-  Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Ohanesian Estates
 ADDRESS: 2122 S Peach Ave
 Fresno CA 93725
 LAT/LONG: 36.720303 / 119.722987

CLIENT: RMA Geoscience
 CONTACT: Megan Stewart
 INQUIRY #: 6356858.2s
 DATE: February 04, 2021 5:03 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		1	0	0	NR	NR	1
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		1	0	NR	NR	NR	1
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	0.001		0	NR	NR	NR	NR	0
<i>State- and tribal - equivalent NPL RESPONSE</i>								
RESPONSE	1.000		0	0	0	0	NR	0
<i>State- and tribal - equivalent CERCLIS ENVIROSTOR</i>								
ENVIROSTOR	1.000		0	0	2	0	NR	2
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500		0	1	0	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<i>State and tribal voluntary cleanup sites</i>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
<i>State and tribal Brownfields sites</i>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Registered Storage Tanks</i>								
SWEEPS UST	0.250		2	1	NR	NR	NR	3
HIST UST	0.250		4	0	NR	NR	NR	4
CERS TANKS	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		2	0	NR	NR	NR	2
<i>Local Land Records</i>								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		3	0	NR	NR	NR	3
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	1	0	NR	NR	1
CUPA Listings	0.250	1	2	4	NR	NR	NR	7

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
-----------------	--	----------------------------	-----------------	------------------	------------------	----------------	---------------	--------------------------

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

1
Target
Property

OHANESIAN PROPERTY
2122 S PEACH AVE
FRESNO, CA 93725

CUPA Listings **S118489096**
N/A

Actual:
307 ft.

CUPA FRESNO:
Name: OHANESIAN PROPERTY
Address: 2122 S PEACH AVE
City,State,Zip: FRESNO, CA 93725
Region: FRESNO
Cross Street: Not reported
Facility ID: FA0284615
APM Number: 48102047
Program Element: CONTAMINATED SITE - MISC/RWQCB LEAD

2
East
< 1/8
0.011 mi.
56 ft.

USDA AGRICULTURE RESEARCH SERVICE
2221 S PEACH
FRESNO, CA 93727

CUPA Listings **S106176714**
N/A

Relative:
Higher

Actual:
308 ft.

CUPA FRESNO:
Name: USDA AGRICULTURE RESEARCH SERVICE
Address: 2221 S PEACH
City,State,Zip: FRESNO, CA 93727
Region: FRESNO
Cross Street: Not reported
Facility ID: FA0170542
APM Number: Not reported
Program Element: UST REMOVAL/CLOSURE W/1 TANK

A3
West
< 1/8
0.018 mi.
95 ft.

MARTIN DEDEKIAN
2178 S WILLOW
FRESNO, CA 93725

Site 1 of 2 in cluster A

SWEEPS UST **S101622383**
HIST UST **N/A**
CA FID UST

Relative:
Higher

Actual:
307 ft.

SWEEPS UST:
Name: MARTIN DEDEKIAN
Address: 2178 S WILLOW
City: FRESNO
Status: Active
Comp Number: 56590
Number: 9
Board Of Equalization: Not reported
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: 1
SWRCB Tank Id: 10-000-056590-000001
Tank Status: A
Capacity: 550
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: 1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MARTIN DEDEKIAN (Continued)

S101622383

HIST UST:

Name:	MARTIN DEDEKIAN
Address:	2178 SOUTH WILLOW
City,State,Zip:	FRESNO, CA 93725
File Number:	00024C05
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00024C05.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

[Click here for Geo Tracker PDF:](#)

CA FID UST:

Facility ID:	10008129
Regulated By:	UTNKA
Regulated ID:	00056590
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2092552845
Mail To:	Not reported
Mailing Address:	2178 S WILLOW
Mailing Address 2:	Not reported
Mailing City,St,Zip:	FRESNO 93725
Contact:	Not reported
Contact Phone:	Not reported
DUNS Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A4
West
< 1/8
0.018 mi.
95 ft.

MARTIN DEDEKIAN
2178 S WILLOW AVE
FRESNO, CA 93725

Site 2 of 2 in cluster A

HIST UST **U001592639**
N/A

Relative:
Higher

Actual:
307 ft.

HIST UST:
Name: MARTIN DEDEKIAN
Address: 2178 S WILLOW AVE
City,State,Zip: FRESNO, CA 93725
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000056590
Facility Type: Other
Other Type: FARM
Contact Name: MARTIN DEDEKIAN
Telephone: 2092552845
Owner Name: MARTIN DEDEKIAN
Owner Address: 2178 SOUTH WILLOW
Owner City,St,Zip: FRESNO, CA 93725
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

B5
SW
< 1/8
0.083 mi.
438 ft.

FUSD-TERRONEZ MIDDLE SCHOOL
2300 S WILLOW AVE
FRESNO, CA 93725

Site 1 of 2 in cluster B

RCRA NonGen / NLR **1024816549**
CAL000318203

Relative:
Lower

Actual:
304 ft.

RCRA NonGen / NLR:
Date Form Received by Agency: 2007-03-30 00:00:00.0
Handler Name: FUSD-TERRONEZ MIDDLE SCHOOL
Handler Address: 2300 S WILLOW AVE
Handler City,State,Zip: FRESNO, CA 93725-5106
EPA ID: CAL000318203
Contact Name: DEREK VEDENOFF
Contact Address: 4600 N. BRAWLEY AVENUE
Contact City,State,Zip: FRESNO, CA 93722
Contact Telephone: 559-457-3055
Contact Fax: 559-457-3709
Contact Email: DEREK.VEDENOFF@FRESNOUNIFIED.ORG
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

FUSD-TERRONEZ MIDDLE SCHOOL (Continued)

1024816549

Mailing Address:	4600 N BRAWLEY AVE
Mailing City,State,Zip:	FRESNO, CA 93722-3921
Owner Name:	FRESNO UNIFIED SCHOOL DISTRICT
Owner Type:	Other
Operator Name:	DEREK VEDENOFF
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 20:29:06.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FUSD-TERRONEZ MIDDLE SCHOOL (Continued)

1024816549

Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: No
Manifest Broker: No
Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator: Owner
Owner/Operator Name: FRESNO UNIFIED SCHOOL DISTRICT
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4600 N BRAWLEY AVE
Owner/Operator City,State,Zip: FRESNO, CA 93722-3921
Owner/Operator Telephone: 559-457-3055
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: DEREK VEDENOFF
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4600 N. BRAWLEY AVENUE
Owner/Operator City,State,Zip: FRESNO, CA 93722
Owner/Operator Telephone: 559-457-3055
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 2007-03-30 00:00:00.0
Handler Name: FUSD-TERRONEZ MIDDLE SCHOOL
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 61111
NAICS Description: ELEMENTARY AND SECONDARY SCHOOLS

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

B6
SW
 < 1/8
 0.083 mi.
 438 ft.

H.B RESTORATION INC
2300 S WILLOW AVE
FRESNO, CA 93725
Site 2 of 2 in cluster B

RCRA NonGen / NLR **1025854071**
CAC003034291

Relative:
Lower
Actual:
304 ft.

RCRA NonGen / NLR:		2019-09-17 00:00:00.0
Date Form Received by Agency:		
Handler Name:	H.B RESTORATION INC	
Handler Address:		2300 S WILLOW AVE
Handler City,State,Zip:		FRESNO, CA 93725-5106
EPA ID:		CAC003034291
Contact Name:		DIMITRIOS ROZAKIS
Contact Address:		5907 26TH ST
Contact City,State,Zip:		RIO LINDA, CA 95673-5308
Contact Telephone:		916-308-5193
Contact Fax:		Not reported
Contact Email:		HBR.INC.17@GMAIL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		2300 S WILLOW AVE
Mailing City,State,Zip:		FRESNO, CA 93725-5106
Owner Name:		FRESNO UNIFIED SCHOOL DISTRICT
Owner Type:		Other
Operator Name:		DIMITRIOS ROZAKIS
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRR Permit Baseline:		Not on the Baseline
2018 GPRR Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

H.B RESTORATION INC (Continued)

1025854071

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-09-27 16:23:12.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	FRESNO UNIFIED SCHOOL DISTRICT
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2309 TULARE ST
Owner/Operator City,State,Zip:	FRESNO, CA 93716
Owner/Operator Telephone:	559-457-3736
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	DIMITRIOS ROZAKIS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5907 26TH ST
Owner/Operator City,State,Zip:	RIO LINDA, CA 95673-5308
Owner/Operator Telephone:	916-308-5193
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

H.B RESTORATION INC (Continued)

1025854071

Historic Generators:

Receive Date:	2019-09-17 00:00:00.0
Handler Name:	H.B RESTORATION INC
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	325510
NAICS Description:	PAINT AND COATING MANUFACTURING

Facility Has Received Notices of Violations:

Violations:	No Violations Found
-------------	---------------------

Evaluation Action Summary:

Evaluations:	No Evaluations Found
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**C7
 NE
 < 1/8
 0.098 mi.
 518 ft.**

**FRUIT GENETICS & BREEDING RESE
 2021 S PEACH AVE
 FRESNO, CA 93727
 Site 1 of 6 in cluster C**

**HIST UST U001592915
 N/A**

**Relative:
 Higher
 Actual:
 310 ft.**

HIST UST:	
Name:	FRUIT GENETICS & BREEDING RESE
Address:	2021 S PEACH AVE
City,State,Zip:	FRESNO, CA 93727
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000059014
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	OWEN TANNER
Telephone:	2094875334
Owner Name:	USDA, ARS, FRUIT GENETICS & BR
Owner Address:	2021 S. PEACH AVE.
Owner City,St,Zip:	FRESNO, CA 93727
Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	None

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

C8
NE
< 1/8
0.098 mi.
518 ft.

USDA, ARS
2021 SOUTH PEACH AVENUE
FRESNO, CA 93727

SEMS-ARCHIVE 1015732585
RCRA-SQG CA7120090397
DOCKET HWC

Site 2 of 6 in cluster C

Relative:
Higher
Actual:
310 ft.

SEMS Archive:
Site ID: 0903879
EPA ID: CA7120090397
Name: USDA, ARS
Address: 2021 SOUTH PEACH AVENUE
Address 2: Not reported
City,State,Zip: FRESNO, CA 93727
Cong District: 15
FIPS Code: 06019
FF: Y
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region: 09
Site ID: 0903879
EPA ID: CA7120090397
Site Name: USDA, ARS
NPL: N
FF: Y
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1998-10-23 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 09
Site ID: 0903879
EPA ID: CA7120090397
Site Name: USDA, ARS
NPL: N
FF: Y
OU: 00
Action Code: RX
Action Name: FF PA
SEQ: 1
Start Date: Not reported
Finish Date: 1998-10-23 04:00:00
Qual: N
Current Action Lead: EPA Perf

Region: 09
Site ID: 0903879
EPA ID: CA7120090397
Site Name: USDA, ARS
NPL: N
FF: Y
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

USDA, ARS (Continued)

1015732585

Start Date: Not reported
Finish Date: 1992-09-08 04:00:00
Qual: H
Current Action Lead: Fed Fac

Region: 09
Site ID: 0903879
EPA ID: CA7120090397
Site Name: USDA, ARS
NPL: N
FF: Y
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1991-04-26 04:00:00
Finish Date: 1991-04-26 04:00:00
Qual: Not reported
Current Action Lead: Fed Fac

RCRA-SQG:

Date Form Received by Agency: 1987-07-01 00:00:00.0
Handler Name: USDA ARS
Handler Address: 2021 S PEACH AVE
Handler City,State,Zip: FRESNO, CA 93727
EPA ID: CA7120090397
Contact Name: ENVIRONMENTAL MANAGER
Contact Address: 2021 S PEACH AVE
Contact City,State,Zip: FRESNO, CA 93727
Contact Telephone: 209-487-5351
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Small Quantity Generator
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: CA
State District: 5
Mailing Address: S PEACH AVE
Mailing City,State,Zip: FRESNO, CA 93727
Owner Name: UNITED STATES OF AMERICA
Owner Type: Private
Operator Name: NOT REQUIRED
Operator Type: Private
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: No
Recycler Activity with Storage: No
Small Quantity On-Site Burner Exemption: No
Smelting Melting and Refining Furnace Exemption: No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

USDA, ARS (Continued)

1015732585

Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2000-09-15 17:31:34.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	Not reported

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

USDA, ARS (Continued)

1015732585

Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES OF AMERICA
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 1987-07-01 00:00:00.0
Handler Name: USDA ARS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

DOCKET HWC:

Agency: AGRICULTURE
Facility ID: CA7120090397
Reporting Mechanism: RCRA 3016
Status: On MDL

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

C9
NE
< 1/8
0.098 mi.
518 ft.

USDA AGRICULTURE RESEARCH SVC
2021 S PEACH
FRESNO, CA 93701

SWEEPS UST **S101581669**
CA FID UST **N/A**

Site 3 of 6 in cluster C

Relative:
Higher
Actual:
310 ft.

SWEEPS UST:
Name: USDA AGRICULTURE RESEARCH SVC
Address: 2021 S PEACH
City: FRESNO
Status: Not reported
Comp Number: 1004
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 10-000-001004-000001
Tank Status: Not reported
Capacity: 550
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: 1

CA FID UST:
Facility ID: 10004435
Regulated By: UTKNI
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 800 BUCHANAN ST
Mailing Address 2: Not reported
Mailing City,St,Zip: FRESNO 93701
Contact: Not reported
Contact Phone: Not reported
DUNS Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

C10
NE
< 1/8
0.098 mi.
518 ft.

CITY OF FRESNO PARKS
2021 S. PEACH AVENUE
FRESNO, CA 93727

RCRA NonGen / NLR **1026480867**
CAC003086850

Site 4 of 6 in cluster C

Relative:
Higher
Actual:
310 ft.

RCRA NonGen / NLR:
Date Form Received by Agency: 2020-10-05 00:00:00.0
Handler Name: CITY OF FRESNO PARKS
Handler Address: 2021 S. PEACH AVENUE
Handler City,State,Zip: FRESNO, CA 93727
EPA ID: CAC003086850
Contact Name: LEVI WINEBRENNER

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CITY OF FRESNO PARKS (Continued)

1026480867

Contact Address:	665 FULTON STREET
Contact City,State,Zip:	FRESNO, CA 93721
Contact Telephone:	559-621-5762
Contact Fax:	559-621-5762
Contact Email:	LEVI.WINEBRENNER@FRESNO.GOV
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	665 FULTON STREET
Mailing City,State,Zip:	FRESNO, CA 93721
Owner Name:	COF, PARKS & RECREATION SERVICES
Owner Type:	Other
Operator Name:	LEVI WINEBRENNER
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRC Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CITY OF FRESNO PARKS (Continued)

1026480867

Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDU Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-10-08 18:50:21.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:	
Owner/Operator Indicator:	Operator
Owner/Operator Name:	LEVI WINEBRENNER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	665 FULTON STREET
Owner/Operator City,State,Zip:	FRESNO, CA 93721
Owner/Operator Telephone:	559-621-5762
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	COF, PARKS & RECREATION SERVICES
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	665 FULTON STREET
Owner/Operator City,State,Zip:	FRESNO, CA 93721
Owner/Operator Telephone:	559-621-5762
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:	
Receive Date:	2020-10-05 00:00:00.0
Handler Name:	CITY OF FRESNO PARKS
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CITY OF FRESNO PARKS (Continued)

1026480867

Current Record: Yes
 Non Storage Recycler Activity: Not reported
 Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 56299
 NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

C11
NE
< 1/8
0.098 mi.
518 ft.

USDA ARS
2021 S PEACH AVE
FRESNO, CA 93727

FINDS 1000187655
ECHO N/A
CUPA Listings

Site 5 of 6 in cluster C

Relative:
Higher
Actual:
310 ft.

FINDS:
 Registry ID: 110002625641

Click Here:

Environmental Interest/Information System:

FEDERAL FACILITY HAZARDOUS WASTE DOCKET
 RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
 SUPERFUND (NON-NPL)

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000187655
 Registry ID: 110002625641
 DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110002625641>
 Name: USDA ARS
 Address: 2021 S PEACH AVE
 City,State,Zip: FRESNO, CA 93727

CUPA FRESNO:

Name: USDA AGRICULTURE RESEARCH SERVICE
 Address: 2021 S PEACH
 City,State,Zip: FRESNO, CA 93727
 Region: FRESNO
 Cross Street: Not reported
 Facility ID: FA0170540
 APM Number: 481020294
 Program Element: UST REMOVAL/CLOSURE W/7 TANKS

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

USDA ARS (Continued)

1000187655

Name: USDA AGRICULTURE RESEARCH SERVICE
 Address: 2021 S PEACH
 City,State,Zip: FRESNO, CA 93727
 Region: FRESNO
 Cross Street: Not reported
 Facility ID: FA0170540
 APM Number: 481020294
 Program Element: FORMER CONTAMINATED SITE/NO FURTHER ACTION

Name: USDA AGRICULTURE RESEARCH SERVICE
 Address: 2021 S PEACH
 City,State,Zip: FRESNO, CA 93727
 Region: FRESNO
 Cross Street: Not reported
 Facility ID: FA0170540
 APM Number: 481020294
 Program Element: HAZ MAT DISCLOSURE/CLOSED SITE

Name: USDA AGRICULTURE RESEARCH SERVICE
 Address: 2021 S PEACH
 City,State,Zip: FRESNO, CA 93727
 Region: FRESNO
 Cross Street: Not reported
 Facility ID: FA0170540
 APM Number: 481020294
 Program Element: EXTREMELY HAZARDOUS SUBSTANCE HANDLER (EPCRA)

Name: USDA AGRICULTURE RESEARCH SERVICE
 Address: 2021 S PEACH
 City,State,Zip: FRESNO, CA 93727
 Region: FRESNO
 Cross Street: Not reported
 Facility ID: FA0170540
 APM Number: 481020294
 Program Element: CONTAMINATED SITE - MISC/RWQCB LEAD

C12
NE
 < 1/8
 0.098 mi.
 518 ft.

FRUIT GENETICS AND BREEDING RESE
2021 S PEACH AVE
FRESNO, CA 93727

HIST UST S112977836
N/A

Site 6 of 6 in cluster C

Relative:
Higher
Actual:
310 ft.

HIST UST:
 Name: FRUIT GENETICS AND BREEDING RESE
 Address: 2021 S PEACH AVE
 City,State,Zip: FRESNO, CA 93727
 File Number: 000256E8
 URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000256E8.pdf>
 Region: Not reported
 Facility ID: Not reported
 Facility Type: Not reported
 Other Type: Not reported
 Contact Name: Not reported
 Telephone: Not reported
 Owner Name: Not reported
 Owner Address: Not reported
 Owner City,St,Zip: Not reported
 Total Tanks: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

FRUIT GENETICS AND BREEDING RESE (Continued)

S112977836

Tank Num: Not reported
 Container Num: Not reported
 Year Installed: Not reported
 Tank Capacity: Not reported
 Tank Used for: Not reported
 Type of Fuel: Not reported
 Container Construction Thickness: Not reported
 Leak Detection: Not reported

Click here for Geo Tracker PDF:

13
NE
 < 1/8
 0.105 mi.
 557 ft.

SERVPRO OF FRESNO SOUTH
5171 E WOODWARD AVE
FRESNO, CA 93702

EDR Hist Cleaner **1018854036**
 N/A

Relative:
Higher

EDR Hist Cleaner

Actual:
309 ft.

Year:	Name:	Type:
1978	SERVPRO OF FRESNO SOUTH	Drycleaning Plants, Except Rugs
1979	SERVPRO OF FRESNO SOUTH	Drycleaning Plants, Except Rugs
1980	SERVPRO OF FRESNO SOUTH	Drycleaning Plants, Except Rugs

14
NE
 1/8-1/4
 0.158 mi.
 834 ft.

U.S.D.A. AGRICULTURE RESEARCH
2021 PEACH
FRESNO, CA 93711

LUST **S102439513**
Cortese **N/A**
HIST CORTESE
CERS

Relative:
Higher

LUST REG 5:

Actual:
311 ft.

Name: U.S.D.A. AGRICULTURE RESEARCH
 Address: 2021 PEACH
 City: FRESNO
 Region: 5
 Status: Case Closed
 Case Number: 5T10000572
 Case Type: Soil only
 Substance: DIESEL
 Staff Initials: DAM
 Lead Agency: Local
 Program: LUST
 MTBE Code: N/A

LUST:

Name: U.S.D.A. AGRICULTURE RESEARCH
 Address: 2021 PEACH
 City,State,Zip: FRESNO, CA 93711
 Lead Agency: FRESNO COUNTY
 Case Type: LUST Cleanup Site
 Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601900555
 Global Id: T0601900555
 Latitude: 36.7244234
 Longitude: -119.7183953
 Status: Completed - Case Closed
 Status Date: 04/04/1996

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

U.S.D.A. AGRICULTURE RESEARCH (Continued)

S102439513

Case Worker: EHD
RB Case Number: 5T10000572
Local Agency: FRESNO COUNTY
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:

Global Id: T0601900555
Contact Type: Local Agency Caseworker
Contact Name: FRESNO COUNTY DPH, ENVIRONMENTAL HEALTH DIV
Organization Name: FRESNO COUNTY
Address: 1221 Fulton Street
City: Fresno
Email: environmentalhealth@fresnocountyca.gov
Phone Number: Not reported

LUST:

Global Id: T0601900555
Action Type: Other
Date: 07/13/1995
Action: Leak Reported

Global Id: T0601900555
Action Type: Other
Date: 07/13/1995
Action: Leak Discovery

Global Id: T0601900555
Action Type: Other
Date: 05/15/1995
Action: Leak Stopped

LUST:

Global Id: T0601900555
Status: Open - Case Begin Date
Status Date: 05/15/1995

Global Id: T0601900555
Status: Open - Site Assessment
Status Date: 07/13/1995

Global Id: T0601900555
Status: Completed - Case Closed
Status Date: 04/04/1996

CORTESE:

Name: U.S.D.A. AGRICULTURE RESEARCH
Address: 2021 PEACH
City,State,Zip: FRESNO, CA 93711
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0601900555

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

U.S.D.A. AGRICULTURE RESEARCH (Continued)

S102439513

Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:

edr_fname: U.S.D.A. AGRICULTURE RESE
edr_fadd1: 2021 PEACH
City,State,Zip: FRESNO, CA 93727
Region: CORTESE
Facility County Code: 10
Reg By: LTNKA
Reg Id: 5T10000572

CERS:

Name: U.S.D.A. AGRICULTURE RESEARCH
Address: 2021 PEACH
City,State,Zip: FRESNO, CA 93711
Site ID: 201687
CERS ID: T0601900555
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc: Local Agency Caseworker
Entity Name: FRESNO COUNTY DPH, ENVIRONMENTAL HEALTH DIV - FRESNO COUNTY
Entity Title: Not reported
Affiliation Address: 1221 Fulton Street
Affiliation City: Fresno
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

15 NNW 1/8-1/4 0.161 mi. 850 ft.	PILIBOS RESIDENCE 1919 S WILLOW FRESNO, CA 93727	CUPA Listings	S105047313 N/A
---	---	----------------------	---------------------------------

Relative: Higher Actual: 309 ft.	CUPA FRESNO: Name: PILIBOS RESIDENCE Address: 1919 S WILLOW City,State,Zip: FRESNO, CA 93727 Region: FRESNO Cross Street: Not reported Facility ID: FA0275101 APM Number: 47303010 Program Element: UST REMOVAL/CLOSURE W/2 TANKS	
---	--	--

16 South 1/8-1/4 0.162 mi. 857 ft.	BEST AUTO SERVICE 2363 S TIMMY FRESNO, CA 93702	CUPA Listings	S105773376 N/A
---	--	----------------------	---------------------------------

Relative: Lower Actual: 305 ft.	CUPA FRESNO: Name: BEST AUTO SERVICE Address: 2363 S TIMMY City,State,Zip: FRESNO, CA 93702 Region: FRESNO Cross Street: Not reported Facility ID: FA0276196 APM Number: 48120514S Program Element: HAZ MAT DISCLOSURE-BELOW REPORTING QUANTITY Name: BEST AUTO SERVICE Address: 2363 S TIMMY City,State,Zip: FRESNO, CA 93702 Region: FRESNO Cross Street: Not reported Facility ID: FA0276196 APM Number: 48120514S Program Element: HAZARDOUS WASTE GENERATOR (CESQG)	
--	---	--

D17 NW 1/8-1/4 0.197 mi. 1042 ft.	FRESNO PACIFIC COLLEGE 1818 S WILLOW FRESNO, CA 93702 Site 1 of 3 in cluster D	CUPA Listings	S106175319 N/A
--	---	----------------------	---------------------------------

Relative: Higher Actual: 308 ft.	CUPA FRESNO: Name: FRESNO PACIFIC COLLEGE Address: 1818 S WILLOW City,State,Zip: FRESNO, CA 93702 Region: FRESNO Cross Street: Not reported Facility ID: FA0272850 APM Number: 47302040S Program Element: UST REMOVAL/CLOSURE W/2 TANKS	
---	--	--

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

D18
NW
1/8-1/4
0.197 mi.
1042 ft.

FRESNO PACIFIC COLLEGE
1818 S WILLOW AVE
FRESNO, CA 93702

SWEEPS UST **S106926474**
N/A

Site 2 of 3 in cluster D

Relative:
Higher
Actual:
308 ft.

SWEEPS UST:
Name: FRESNO PACIFIC COLLEGE
Address: 1818 S WILLOW AVE
City: FRESNO
Status: Not reported
Comp Number: 13113
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 10-000-013113-000001
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: 2

Name: FRESNO PACIFIC COLLEGE
Address: 1818 S WILLOW AVE
City: FRESNO
Status: Not reported
Comp Number: 13113
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 10-000-013113-000002
Tank Status: Not reported
Capacity: 300
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

D19
NW
1/8-1/4
0.197 mi.
1042 ft.

CITY OF FRESNO WELL 164-1 & 164-2
1818 S WILLOW AVE
FRESNO, CA 93727

CUPA Listings **S112845382**
HAZNET **N/A**
CERS
HWTS

Site 3 of 3 in cluster D

Relative:
Higher
Actual:
308 ft.

CUPA FRESNO:
Name: CITY OF FRESNO WELL 164-1 & 164-2
Address: 1818 S WILLOW AVE
City,State,Zip: FRESNO, CA 93727
Region: FRESNO
Cross Street: HEATON
Facility ID: FA0283436

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF FRESNO WELL 164-1 & 164-2 (Continued)

S112845382

APM Number: 47302039ST
Program Element: HAZARDOUS MATERIALS HANDLER - WELL SITE

HAZNET:

Name: 1X FRESNO PACIFIC
Address: 1818 S WILLOW
Address 2: Not reported
City,State,Zip: FRESNO, CA 937270000
Contact: GAYLE THOMAS
Telephone: 2094855495
Mailing Name: Not reported
Mailing Address: 1717 S CHESTNUT

Year: 1993
Gepaid: CAC000788832
TSD EPA ID: CAD980883177
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: R01 - Recycler
Tons: 0.3127

Additional Info:

Year: 1993
Gen EPA ID: CAC000788832

Shipment Date: 19930409
Creation Date: 9/6/1995 0:00:00
Receipt Date: 19930409
Manifest ID: 92364542
Trans EPA ID: CAD981428022
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSD EPA ID: CAD980883177
Trans Name: Not reported
TSD Alt EPA ID: Not reported
TSD Alt Name: Not reported
Waste Code Description: 223 - Unspecified oil-containing waste
RCRA Code: Not reported
Meth Code: R01 - Recycler
Quantity Tons: 0.3127
Waste Quantity: 75
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

CERS:

Name: CITY OF FRESNO WELL 164-1 & 164-2
Address: 1818 S WILLOW AVE
City,State,Zip: FRESNO, CA 93727
Site ID: 418598
CERS ID: 10693465
CERS Description: Chemical Storage Facilities

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF FRESNO WELL 164-1 & 164-2 (Continued)

S112845382

Coordinates:

Site ID: 418598
Facility Name: CITY OF FRESNO WELL 164-1 & 164-2
Env Int Type Code: HMBP
Program ID: 10693465
Coord Name: Not reported
Ref Point Type Desc: Entrance point of a facility or station
Latitude: 36.724007
Longitude: -119.727890

Affiliation:

Affiliation Type Desc: Environmental Contact
Entity Name: ROBERT LITTLE
Entity Title: Not reported
Affiliation Address: 1910 E. UNIVERSITY AVE.
Affiliation City: FRESNO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 93703
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: CITY OF FRESNO, WATER DIVISION
Entity Title: Not reported
Affiliation Address: 1910 E. UNIVERSITY AVE.
Affiliation City: FRESNO
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 93703
Affiliation Phone: (559) 621-5300

Affiliation Type Desc: Operator
Entity Name: CITY OF FRESNO / DPU / WATER DIVISION
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (559) 621-5300

Affiliation Type Desc: CUPA District
Entity Name: Fresno County Community Health Department
Entity Title: Not reported
Affiliation Address: 1221 Fulton St., 3rd Floor P.O. Box 11867
Affiliation City: Fresno
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 93775
Affiliation Phone: (559) 600-3271

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1910 E. UNIVERSITY AVE.
Affiliation City: FRESNO

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF FRESNO WELL 164-1 & 164-2 (Continued)

S112845382

Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 93703
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: ROBERT LITTLE
Entity Title: WATER SYSTEMS SUPERVISOR
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: ROBERT LITTLE
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: City of Fresno Well Site Organization
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

HWTS:

Name: 1X FRESNO PACIFIC
Address: 1818 S WILLOW
Address 2: Not reported
City,State,Zip: FRESNO, CA 937270000
EPA ID: CAC000788832
Inactive Date: 10/25/2000
Create Date: 03/25/1993
Last Act Date: 10/25/2000
Mailing Name: Not reported
Mailing Address: 1717 S CHESTNUT
Mailing Address 2: Not reported
Mailing City,State,Zip: FRESNO, CA 937020000
Owner Name: FRESNO PACIFIC
Owner Address: --
Owner Address 2: Not reported
Owner City,State,Zip: --, 99 --
Contact Name: GAYLE THOMAS
Contact Address: --
Contact Address 2: Not reported
City,State,Zip: --, 99 --

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

20
South
1/4-1/2
0.346 mi.
1825 ft.

PLANNED SOUTHEAST SCHOOL SITE
SOUTHWEST CORNER OF E. CHURCH & S. PEACH AVENUES
FRESNO, CA 93725

ENVIROSTOR **S118466279**
SCH **N/A**

Relative:
Lower
Actual:
304 ft.

ENVIROSTOR:
 Name: PLANNED SOUTHEAST SCHOOL SITE
 Address: SOUTHWEST CORNER OF E. CHURCH & S. PEACH AVENUES
 City,State,Zip: FRESNO, CA 93725
 Facility ID: 60002297
 Status: No Further Action
 Status Date: 07/19/2016
 Site Code: 104750
 Site Type: School Investigation
 Site Type Detailed: School
 Acres: 51.48
 NPL: NO
 Regulatory Agencies: SMBRP
 Lead Agency: SMBRP
 Program Manager: Jose Luevano
 Supervisor: Jose Salcedo
 Division Branch: Northern California Schools & Santa Susana
 Assembly: , 31
 Senate: , 08
 Special Program: Not reported
 Restricted Use: NO
 Site Mgmt Req: NONE SPECIFIED
 Funding: School District
 Latitude: 36.71338
 Longitude: -119.7220
 APN: 481-090-16, 481-090-18, 481-090-23, 481-090-27, 481-090-28, 48109016, 48109018, 48109023ST, 48109027, 48109028
 Past Use: ABOVE GROUND STORAGE TANKS, AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS, RESIDENTIAL AREA, SCHOOL - ELEMENTARY, UNDERGROUND STORAGE TANKS
 Potential COC: Arsenic Chlordane DDD DDE DDT Lead Polychlorinated biphenyls (PCBs)
 Confirmed COC: 30001-NO 30004-NO 30006-NO 30007-NO 30008-NO 30013-NO 30018-NO No Contaminants found
 Potential Description: SOIL
 Alias Name: Planned School Site
 Alias Type: Alternate Name
 Alias Name: 481-090-16
 Alias Type: APN
 Alias Name: 481-090-18
 Alias Type: APN
 Alias Name: 481-090-23
 Alias Type: APN
 Alias Name: 481-090-27
 Alias Type: APN
 Alias Name: 481-090-28
 Alias Type: APN
 Alias Name: 48109016
 Alias Type: APN
 Alias Name: 48109018
 Alias Type: APN
 Alias Name: 48109023ST
 Alias Type: APN
 Alias Name: 48109027

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PLANNED SOUTHEAST SCHOOL SITE (Continued)

S118466279

Alias Type: APN
Alias Name: 48109028
Alias Type: APN
Alias Name: 104750
Alias Type: Project Code (Site Code)
Alias Name: 60002297
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 03/30/2016
Comments: On Mar 30, 2016, DTSC approved the PEA Workplan for implementation. Fieldwork is scheduled for the week of April 11, 2016.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/19/2016
Comments: On Jul 18, 2016, DTSC concurred with the recommendation of the PEA Report and issued a 'No Further Action' determination for the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/16/2016
Comments: EOA fully executed on Feb 16, 2016.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 09/18/2017
Comments: Closeout Form 1554 submitted on 6/9/17 and processed by CRBU on 9/18/17; closeout complete.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: PLANNED SOUTHEAST SCHOOL SITE
Address: SOUTHWEST CORNER OF E. CHURCH & S. PEACH AVENUES
City,State,Zip: FRESNO, CA 93725
Facility ID: 60002297
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 51.48
National Priorities List: NO

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PLANNED SOUTHEAST SCHOOL SITE (Continued)

S118466279

Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Jose Luevano
Supervisor: Jose Salcedo
Division Branch: Northern California Schools & Santa Susana
Site Code: 104750
Assembly: , 31
Senate: , 08
Special Program Status: Not reported
Status: No Further Action
Status Date: 07/19/2016
Restricted Use: NO
Funding: School District
Latitude: 36.71338
Longitude: -119.7220
APN: 481-090-16, 481-090-18, 481-090-23, 481-090-27, 481-090-28, 48109016, 48109018, 48109023ST, 48109027, 48109028
Past Use: ABOVE GROUND STORAGE TANKS, AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS, RESIDENTIAL AREA, SCHOOL - ELEMENTARY, UNDERGROUND STORAGE TANKS
Potential COC: Arsenic, Arsenic, Chlordane, DDD, DDE, DDT, Lead, Polychlorinated biphenyls (PCBs)
Confirmed COC: 30001-NO, 30004-NO, 30006-NO, 30007-NO, 30008-NO, 30013-NO, 30018-NO, No Contaminants found
Potential Description: SOIL
Alias Name: Planned School Site
Alias Type: Alternate Name
Alias Name: 481-090-16
Alias Type: APN
Alias Name: 481-090-18
Alias Type: APN
Alias Name: 481-090-23
Alias Type: APN
Alias Name: 481-090-27
Alias Type: APN
Alias Name: 481-090-28
Alias Type: APN
Alias Name: 48109016
Alias Type: APN
Alias Name: 48109018
Alias Type: APN
Alias Name: 48109023ST
Alias Type: APN
Alias Name: 48109027
Alias Type: APN
Alias Name: 48109028
Alias Type: APN
Alias Name: 104750
Alias Type: Project Code (Site Code)
Alias Name: 60002297
Alias Type: Envirostor ID Number
Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 03/30/2016

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

PLANNED SOUTHEAST SCHOOL SITE (Continued)

S118466279

Comments: On Mar 30, 2016, DTSC approved the PEA Workplan for implementation. Fieldwork is scheduled for the week of April 11, 2016.

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Preliminary Endangerment Assessment Report
 Completed Date: 07/19/2016
 Comments: On Jul 18, 2016, DTSC concurred with the recommendation of the PEA Report and issued a 'No Further Action' determination for the site.

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Environmental Oversight Agreement
 Completed Date: 02/16/2016
 Comments: EOA fully executed on Feb 16, 2016.

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Cost Recovery Closeout Memo
 Completed Date: 09/18/2017
 Comments: Closeout Form 1554 submitted on 6/9/17 and processed by CRBU on 9/18/17; closeout complete.

Future Area Name: Not reported
 Future Sub Area Name: Not reported
 Future Document Type: Not reported
 Future Due Date: Not reported
 Schedule Area Name: Not reported
 Schedule Sub Area Name: Not reported
 Schedule Document Type: Not reported
 Schedule Due Date: Not reported
 Schedule Revised Date: Not reported

21
 SE
 1/4-1/2
 0.443 mi.
 2339 ft.

CHURCH & ORANGEWOOD PROPOSED SCHOOL SITE
SW CORNER OF E. CHURCH AVE. AND S. ORANGEWOOD DR.
FRESNO, CA 93725

ENVIROSTOR S123133182
SCH N/A

Relative:
Higher
Actual:
308 ft.

ENVIROSTOR:
 Name: CHURCH & ORANGEWOOD PROPOSED SCHOOL SITE
 Address: SW CORNER OF E. CHURCH AVE. AND S. ORANGEWOOD DR.
 City,State,Zip: FRESNO, CA 93725
 Facility ID: 60002701
 Status: No Further Action
 Status Date: 07/22/2019
 Site Code: 104792
 Site Type: School Investigation
 Site Type Detailed: School
 Acres: 5
 NPL: NO
 Regulatory Agencies: SMBRP
 Lead Agency: SMBRP
 Program Manager: Elizabeth Tisdale
 Supervisor: Jose Salcedo
 Division Branch: Northern California Schools & Santa Susana
 Assembly: , 31
 Senate: , 08

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHURCH & ORANGEWOOD PROPOSED SCHOOL SITE (Continued)

S123133182

Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 36.71395
Longitude: -119.7131
APN: 48130034ST, 48130035ST
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 48130034ST
Alias Type: APN
Alias Name: 48130035ST
Alias Type: APN
Alias Name: 104792
Alias Type: Project Code (Site Code)
Alias Name: 60002701
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/17/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement Application
Completed Date: 08/03/2018
Comments: On August 3, 2018, the District submitted an EOP Application via email.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 10/03/2018
Comments: On October 3, 2018, DTSC approved the PEA Workplan as final.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/23/2018
Comments: Fieldwork was conducted on 23 October 2018.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 09/18/2018
Comments: Fully executed EOA sent to District via regular mail on 09/18/18.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/22/2018
Comments: On August 22, 2018, the PEA scoping meeting was held.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHURCH & ORANGEWOOD PROPOSED SCHOOL SITE (Continued)

S123133182

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: CHURCH & ORANGEWOOD PROPOSED SCHOOL SITE
Address: SW CORNER OF E. CHURCH AVE. AND S. ORANGEWOOD DR.
City,State,Zip: FRESNO, CA 93725
Facility ID: 60002701
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Elizabeth Tisdale
Supervisor: Jose Salcedo
Division Branch: Northern California Schools & Santa Susana
Site Code: 104792
Assembly: , 31
Senate: , 08
Special Program Status: Not reported
Status: No Further Action
Status Date: 07/22/2019
Restricted Use: NO
Funding: School District
Latitude: 36.71395
Longitude: -119.7131
APN: 48130034ST, 48130035ST
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 48130034ST
Alias Type: APN
Alias Name: 48130035ST
Alias Type: APN
Alias Name: 104792
Alias Type: Project Code (Site Code)
Alias Name: 60002701
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/17/2019
Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHURCH & ORANGEWOOD PROPOSED SCHOOL SITE (Continued)

S123133182

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement Application
Completed Date: 08/03/2018
Comments: On August 3, 2018, the District submitted an EOP Application via email.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 10/03/2018
Comments: On October 3, 2018, DTSC approved the PEA Workplan as final.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/23/2018
Comments: Fieldwork was conducted on 23 October 2018.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 09/18/2018
Comments: Fully executed EOA sent to District via regular mail on 09/18/18.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/22/2018
Comments: On August 22, 2018, the PEA scoping meeting was held.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Count: 3 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FRESNO	S112138493		PEACH AVE, 1/8 MILE S OF CENTR	93725	CDL
FRESNO	S126143205	PROPOSED TEMPERANCE ELEMENTARY SCH	WEST SIDE OF TEMPERANCE AVENUE	93727	ENVIROSTOR, SCH
MALAGA	S126982980	KROEKER GREENWASTE CHIPPING/GRINDI	46 SOTUN CHESTNUT AVENUE	93725	SWF/LF

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/28/2020	Source: EPA
Date Data Arrived at EDR: 11/05/2020	Telephone: N/A
Date Made Active in Reports: 11/25/2020	Last EDR Contact: 01/14/2021
Number of Days to Update: 20	Next Scheduled EDR Contact: 04/12/2021
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/28/2020	Source: EPA
Date Data Arrived at EDR: 11/05/2020	Telephone: N/A
Date Made Active in Reports: 11/25/2020	Last EDR Contact: 01/14/2021
Number of Days to Update: 20	Next Scheduled EDR Contact: 04/12/2021
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: N/A
Last EDR Contact: 01/14/2021
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 12/23/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/14/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 10/28/2020	Source: EPA
Date Data Arrived at EDR: 11/05/2020	Telephone: 800-424-9346
Date Made Active in Reports: 11/25/2020	Last EDR Contact: 01/14/2021
Number of Days to Update: 20	Next Scheduled EDR Contact: 04/26/2021
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/14/2020	Source: EPA
Date Data Arrived at EDR: 12/17/2020	Telephone: 800-424-9346
Date Made Active in Reports: 12/22/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 5	Next Scheduled EDR Contact: 04/05/2021
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/14/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2020	Telephone: (415) 495-8895
Date Made Active in Reports: 12/22/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 5	Next Scheduled EDR Contact: 04/05/2021
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/14/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2020	Telephone: (415) 495-8895
Date Made Active in Reports: 12/22/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 5	Next Scheduled EDR Contact: 04/05/2021
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/14/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2020	Telephone: (415) 495-8895
Date Made Active in Reports: 12/22/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 5	Next Scheduled EDR Contact: 04/05/2021
	Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/14/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2020	Telephone: (415) 495-8895
Date Made Active in Reports: 12/22/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 5	Next Scheduled EDR Contact: 04/05/2021
	Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 08/06/2020	Source: Department of the Navy
Date Data Arrived at EDR: 08/21/2020	Telephone: 843-820-7326
Date Made Active in Reports: 11/11/2020	Last EDR Contact: 11/05/2020
Number of Days to Update: 82	Next Scheduled EDR Contact: 02/22/2021
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 10/28/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/05/2020	Telephone: 703-603-0695
Date Made Active in Reports: 11/18/2020	Last EDR Contact: 11/05/2020
Number of Days to Update: 13	Next Scheduled EDR Contact: 03/08/2021
	Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 10/28/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/05/2020	Telephone: 703-603-0695
Date Made Active in Reports: 11/18/2020	Last EDR Contact: 11/05/2020
Number of Days to Update: 13	Next Scheduled EDR Contact: 03/08/2021
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/14/2020

Date Data Arrived at EDR: 12/15/2020

Date Made Active in Reports: 12/22/2020

Number of Days to Update: 7

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 12/15/2020

Next Scheduled EDR Contact: 04/05/2021

Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity.

These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/26/2020

Date Data Arrived at EDR: 10/26/2020

Date Made Active in Reports: 01/13/2021

Number of Days to Update: 79

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Last EDR Contact: 01/26/2021

Next Scheduled EDR Contact: 05/10/2021

Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. 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. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 10/26/2020

Date Data Arrived at EDR: 10/26/2020

Date Made Active in Reports: 01/13/2021

Number of Days to Update: 79

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Last EDR Contact: 01/26/2021

Next Scheduled EDR Contact: 05/10/2021

Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/09/2020

Date Data Arrived at EDR: 11/10/2020

Date Made Active in Reports: 01/14/2021

Number of Days to Update: 65

Source: Department of Resources Recycling and Recovery

Telephone: 916-341-6320

Last EDR Contact: 11/10/2020

Next Scheduled EDR Contact: 02/22/2021

Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001	Source: California Regional Water Quality Control Board San Diego Region (9)
Date Data Arrived at EDR: 04/23/2001	Telephone: 858-637-5595
Date Made Active in Reports: 05/21/2001	Last EDR Contact: 09/26/2011
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/09/2012
	Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-542-4786
Date Made Active in Reports: 06/02/2003	Last EDR Contact: 07/18/2011
Number of Days to Update: 14	Next Scheduled EDR Contact: 10/31/2011
	Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005	Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Date Data Arrived at EDR: 06/07/2005	Telephone: 760-241-7365
Date Made Active in Reports: 06/29/2005	Last EDR Contact: 09/12/2011
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-570-3769
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/01/2011
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-622-2433
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 09/19/2011
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005	Source: California Regional Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 02/15/2005	Telephone: 909-782-4496
Date Made Active in Reports: 03/28/2005	Last EDR Contact: 08/15/2011
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/29/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/14/2020	Source: EPA, Region 5
Date Data Arrived at EDR: 05/20/2020	Telephone: 312-886-7439
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 04/14/2020	Source: EPA Region 4
Date Data Arrived at EDR: 05/26/2020	Telephone: 404-562-8677
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 78	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/08/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/20/2020	Telephone: 415-972-3372
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/14/2020	Source: EPA Region 8
Date Data Arrived at EDR: 05/20/2020	Telephone: 303-312-6271
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/15/2020	Source: EPA Region 7
Date Data Arrived at EDR: 05/20/2020	Telephone: 913-551-7003
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/08/2020	Source: EPA Region 6
Date Data Arrived at EDR: 05/20/2020	Telephone: 214-665-6597
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/08/2020	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/08/2020	Telephone: 866-480-1028
Date Made Active in Reports: 11/30/2020	Last EDR Contact: 12/04/2020
Number of Days to Update: 83	Next Scheduled EDR Contact: 03/22/2021
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 07/21/2020
Date Data Arrived at EDR: 09/03/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 83

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/03/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/03/2020
Number of Days to Update: 86

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/03/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/29/2020	Source: EPA, Region 1
Date Data Arrived at EDR: 05/20/2020	Telephone: 617-918-1313
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/14/2020	Source: EPA Region 8
Date Data Arrived at EDR: 05/20/2020	Telephone: 303-312-6137
Date Made Active in Reports: 08/13/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 85	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 04/14/2020	Source: EPA Region 4
Date Data Arrived at EDR: 05/26/2020	Telephone: 404-562-9424
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 78	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/08/2020	Source: EPA Region 6
Date Data Arrived at EDR: 05/20/2020	Telephone: 214-665-7591
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/14/2020	Source: EPA Region 5
Date Data Arrived at EDR: 05/20/2020	Telephone: 312-886-6136
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 12/15/2020
Number of Days to Update: 142	Next Scheduled EDR Contact: 04/05/2021
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 10/26/2020	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/26/2020	Telephone: 916-323-3400
Date Made Active in Reports: 01/13/2021	Last EDR Contact: 01/26/2021
Number of Days to Update: 79	Next Scheduled EDR Contact: 05/10/2021
	Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfields Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 09/21/2020	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/22/2020	Telephone: 916-323-7905
Date Made Active in Reports: 12/11/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 80	Next Scheduled EDR Contact: 04/05/2021
	Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/14/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/15/2020	Telephone: 202-566-2777
Date Made Active in Reports: 12/10/2020	Last EDR Contact: 12/11/2020
Number of Days to Update: 86	Next Scheduled EDR Contact: 03/29/2021
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 05/28/2020
Date Data Arrived at EDR: 05/29/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 75

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 01/29/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 03/18/2020	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 03/19/2020	Telephone: 202-307-1000
Date Made Active in Reports: 06/09/2020	Last EDR Contact: 11/16/2020
Number of Days to Update: 82	Next Scheduled EDR Contact: 03/08/2021
	Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 02/23/2009
Number of Days to Update: 21	Next Scheduled EDR Contact: 05/25/2009
	Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 10/26/2020	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/26/2020	Telephone: 916-323-3400
Date Made Active in Reports: 01/13/2021	Last EDR Contact: 01/26/2021
Number of Days to Update: 79	Next Scheduled EDR Contact: 05/10/2021
	Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 06/30/2019	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/28/2020	Telephone: 916-255-6504
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 01/19/2021
Number of Days to Update: 76	Next Scheduled EDR Contact: 04/19/2021
	Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 01/26/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/27/2009
	Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/07/2021
Number of Days to Update: 80

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 01/20/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 03/18/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/01/2020
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 05/20/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/06/2020
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 11/05/2020
Date Data Arrived at EDR: 11/06/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 81

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/07/2021
Number of Days to Update: 80

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/20/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/26/2020
Date Data Arrived at EDR: 08/28/2020
Date Made Active in Reports: 11/17/2020
Number of Days to Update: 81

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/14/2021
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 08/31/2020	Source: DTSC and SWRCB
Date Data Arrived at EDR: 08/31/2020	Telephone: 916-323-3400
Date Made Active in Reports: 11/20/2020	Last EDR Contact: 12/01/2020
Number of Days to Update: 81	Next Scheduled EDR Contact: 03/15/2021
	Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/20/2020	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 09/22/2020	Telephone: 202-366-4555
Date Made Active in Reports: 12/14/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 83	Next Scheduled EDR Contact: 04/05/2021
	Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 09/30/2020	Source: Office of Emergency Services
Date Data Arrived at EDR: 10/19/2020	Telephone: 916-845-8400
Date Made Active in Reports: 01/07/2021	Last EDR Contact: 01/20/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/08/2020	Source: State Water Quality Control Board
Date Data Arrived at EDR: 09/08/2020	Telephone: 866-480-1028
Date Made Active in Reports: 11/30/2020	Last EDR Contact: 12/04/2020
Number of Days to Update: 83	Next Scheduled EDR Contact: 03/22/2021
	Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/08/2020	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/08/2020	Telephone: 866-480-1028
Date Made Active in Reports: 11/30/2020	Last EDR Contact: 12/04/2020
Number of Days to Update: 83	Next Scheduled EDR Contact: 03/22/2021
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/22/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 50	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/14/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2020	Telephone: (415) 495-8895
Date Made Active in Reports: 12/22/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 5	Next Scheduled EDR Contact: 04/05/2021
	Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 09/29/2020	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 11/17/2020	Telephone: 202-528-4285
Date Made Active in Reports: 01/25/2021	Last EDR Contact: 11/17/2020
Number of Days to Update: 69	Next Scheduled EDR Contact: 03/01/2021
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 01/15/2021
Number of Days to Update: 62	Next Scheduled EDR Contact: 04/26/2021
	Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 01/07/2021
Number of Days to Update: 574	Next Scheduled EDR Contact: 04/19/2021
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/09/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/21/2020
Date Data Arrived at EDR: 09/22/2020
Date Made Active in Reports: 12/14/2020
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/02/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/06/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/18/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/02/2021
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/21/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 01/14/2021
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/02/2020
Date Data Arrived at EDR: 11/12/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 74

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 04/27/2020	Source: EPA
Date Data Arrived at EDR: 05/06/2020	Telephone: 202-564-6023
Date Made Active in Reports: 06/09/2020	Last EDR Contact: 01/14/2021
Number of Days to Update: 34	Next Scheduled EDR Contact: 02/15/2021
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 10/09/2019	Source: EPA
Date Data Arrived at EDR: 10/11/2019	Telephone: 202-566-0500
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 01/08/2021
Number of Days to Update: 70	Next Scheduled EDR Contact: 04/19/2021
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 12/30/2020
Number of Days to Update: 79	Next Scheduled EDR Contact: 04/19/2021
	Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/05/2020	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 08/10/2020	Telephone: 301-415-7169
Date Made Active in Reports: 10/08/2020	Last EDR Contact: 01/19/2021
Number of Days to Update: 59	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2018	Source: Department of Energy
Date Data Arrived at EDR: 12/04/2019	Telephone: 202-586-8719
Date Made Active in Reports: 01/15/2020	Last EDR Contact: 12/01/2020
Number of Days to Update: 42	Next Scheduled EDR Contact: 03/15/2021
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 11/30/2020
Number of Days to Update: 251	Next Scheduled EDR Contact: 03/15/2021
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 11/06/2021
Number of Days to Update: 96	Next Scheduled EDR Contact: 02/15/2021
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2019	Telephone: 202-343-9775
Date Made Active in Reports: 09/23/2019	Last EDR Contact: 01/08/2021
Number of Days to Update: 84	Next Scheduled EDR Contact: 04/12/2021
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/27/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 10/08/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 88

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 151

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/23/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 02/02/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/20/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 01/14/2021
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 63

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/24/2020
Date Data Arrived at EDR: 11/30/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 56

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 11/24/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/25/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/25/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/16/2020
Date Data Arrived at EDR: 09/17/2020
Date Made Active in Reports: 12/10/2020
Number of Days to Update: 84

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/10/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/04/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 55

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 77

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/15/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 10/03/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/06/2020	Telephone: 202-564-2280
Date Made Active in Reports: 01/04/2021	Last EDR Contact: 01/08/2021
Number of Days to Update: 90	Next Scheduled EDR Contact: 04/19/2021
	Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/26/2018	Telephone: 202-564-0527
Date Made Active in Reports: 10/05/2018	Last EDR Contact: 11/17/2020
Number of Days to Update: 71	Next Scheduled EDR Contact: 03/08/2021
	Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/13/2020	Source: EPA
Date Data Arrived at EDR: 11/13/2020	Telephone: 800-385-6164
Date Made Active in Reports: 01/25/2021	Last EDR Contact: 11/13/2020
Number of Days to Update: 73	Next Scheduled EDR Contact: 03/01/2021
	Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 06/22/2020	Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 06/22/2020	Telephone: 916-323-3400
Date Made Active in Reports: 09/04/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 74	Next Scheduled EDR Contact: 04/05/2021
	Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019	Source: Livermore-Pleasanton Fire Department
Date Data Arrived at EDR: 05/14/2019	Telephone: 925-454-2361
Date Made Active in Reports: 07/17/2019	Last EDR Contact: 11/13/2020
Number of Days to Update: 64	Next Scheduled EDR Contact: 02/22/2021
	Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/25/2020
Date Data Arrived at EDR: 08/26/2020
Date Made Active in Reports: 11/13/2020
Number of Days to Update: 79

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/06/2020
Date Data Arrived at EDR: 08/28/2020
Date Made Active in Reports: 11/17/2020
Number of Days to Update: 81

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Annually

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 08/19/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 09/04/2020
Number of Days to Update: 14

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 06/16/2020
Date Made Active in Reports: 08/28/2020
Number of Days to Update: 73

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/18/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 10/16/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/07/2021
Number of Days to Update: 80

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 01/20/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 10/13/2020
Date Data Arrived at EDR: 10/14/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/22/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 11/13/2020
Date Made Active in Reports: 01/29/2021
Number of Days to Update: 77

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/04/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/05/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/13/2020
Date Data Arrived at EDR: 11/13/2020
Date Made Active in Reports: 02/01/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 877-786-9427
Last EDR Contact: 11/13/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/13/2020
Date Data Arrived at EDR: 11/13/2020
Date Made Active in Reports: 02/01/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/13/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/05/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/05/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/08/2020	Source: Department of Conservation
Date Data Arrived at EDR: 09/08/2020	Telephone: 916-322-1080
Date Made Active in Reports: 11/30/2020	Last EDR Contact: 12/08/2020
Number of Days to Update: 83	Next Scheduled EDR Contact: 03/22/2021
	Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 08/31/2020	Source: Department of Public Health
Date Data Arrived at EDR: 08/31/2020	Telephone: 916-558-1784
Date Made Active in Reports: 11/20/2020	Last EDR Contact: 12/01/2020
Number of Days to Update: 81	Next Scheduled EDR Contact: 03/15/2021
	Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 11/09/2020	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/10/2020	Telephone: 916-445-9379
Date Made Active in Reports: 01/27/2021	Last EDR Contact: 11/09/2020
Number of Days to Update: 78	Next Scheduled EDR Contact: 02/22/2021
	Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 08/31/2020	Source: Department of Pesticide Regulation
Date Data Arrived at EDR: 08/31/2020	Telephone: 916-445-4038
Date Made Active in Reports: 11/20/2020	Last EDR Contact: 12/01/2020
Number of Days to Update: 81	Next Scheduled EDR Contact: 03/15/2021
	Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 09/08/2020	Source: Department of Conservation
Date Data Arrived at EDR: 09/08/2020	Telephone: 916-323-3836
Date Made Active in Reports: 12/01/2020	Last EDR Contact: 12/08/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 03/22/2021
	Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 12/07/2020	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/09/2020	Telephone: 916-445-3846
Date Made Active in Reports: 12/10/2020	Last EDR Contact: 12/07/2020
Number of Days to Update: 1	Next Scheduled EDR Contact: 03/29/2021
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 09/08/2020	Source: Department of Conservation
Date Data Arrived at EDR: 09/08/2020	Telephone: 916-445-2408
Date Made Active in Reports: 12/01/2020	Last EDR Contact: 12/08/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 03/22/2021
	Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)

Underground control injection sites

Date of Government Version: 09/08/2020	Source: State Water Resource Control Board
Date Data Arrived at EDR: 09/08/2020	Telephone: 866-480-1028
Date Made Active in Reports: 11/30/2020	Last EDR Contact: 12/04/2020
Number of Days to Update: 83	Next Scheduled EDR Contact: 03/22/2021
	Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 11/19/2019	Source: RWQCB, Central Valley Region
Date Data Arrived at EDR: 01/07/2020	Telephone: 559-445-5577
Date Made Active in Reports: 03/09/2020	Last EDR Contact: 01/08/2021
Number of Days to Update: 62	Next Scheduled EDR Contact: 04/19/2021
	Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/20/2007	Telephone: 916-341-5227
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 11/13/2020
Number of Days to Update: 9	Next Scheduled EDR Contact: 03/01/2021
	Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/21/2009	Telephone: 213-576-6726
Date Made Active in Reports: 08/03/2009	Last EDR Contact: 12/15/2020
Number of Days to Update: 13	Next Scheduled EDR Contact: 04/05/2021
	Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 09/08/2020	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/08/2020	Telephone: 866-480-1028
Date Made Active in Reports: 11/30/2020	Last EDR Contact: 12/04/2020
Number of Days to Update: 83	Next Scheduled EDR Contact: 03/22/2021
	Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)

Projects sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/01/2020
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 08/31/2020
Date Data Arrived at EDR: 08/31/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 81

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/07/2021
Number of Days to Update: 80

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/20/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)

Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 10/13/2020
Date Data Arrived at EDR: 10/14/2020
Date Made Active in Reports: 11/03/2020
Number of Days to Update: 20

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 12/30/2020
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 11/25/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 78

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA AMADOR: CUPA Facility List Cupa Facility List

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/22/2020
Date Made Active in Reports: 01/12/2021
Number of Days to Update: 82

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 12/30/2020
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing Cupa Facility Listing

Date of Government Version: 12/15/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 12/24/2020
Number of Days to Update: 8

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/22/2020
Date Made Active in Reports: 01/13/2021
Number of Days to Update: 83

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA DEL NORTE: CUPA Facility List Cupa Facility list

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 08/13/2020
Date Made Active in Reports: 10/22/2020
Number of Days to Update: 70

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List CUPA facility list.

Date of Government Version: 10/22/2020
Date Data Arrived at EDR: 11/03/2020
Date Made Active in Reports: 01/20/2021
Number of Days to Update: 78

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/02/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 77

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 01/15/2021
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List CUPA facility list.

Date of Government Version: 08/13/2020
Date Data Arrived at EDR: 08/17/2020
Date Made Active in Reports: 11/05/2020
Number of Days to Update: 80

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA IMPERIAL: CUPA Facility List Cupa facility list.

Date of Government Version: 10/14/2020
Date Data Arrived at EDR: 10/15/2020
Date Made Active in Reports: 01/05/2021
Number of Days to Update: 82

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List

A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 10/29/2020
Date Data Arrived at EDR: 10/30/2020
Date Made Active in Reports: 01/15/2021
Number of Days to Update: 77

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/21/2021
Date Made Active in Reports: 01/28/2021
Number of Days to Update: 7

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/11/2020
Date Data Arrived at EDR: 05/12/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 76

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

LAKE COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA LAKE: CUPA Facility List Cupa facility list

Date of Government Version: 08/13/2020
Date Data Arrived at EDR: 08/13/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 71

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/11/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/20/2020
Date Made Active in Reports: 01/12/2021
Number of Days to Update: 84

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/09/2020
Date Data Arrived at EDR: 10/09/2020
Date Made Active in Reports: 12/29/2020
Number of Days to Update: 81

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/12/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 08/17/2020
Date Made Active in Reports: 11/05/2020
Number of Days to Update: 80

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/11/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LOS ANGELES AST: Active & Inactive AST Inventory

A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 06/25/2019	Telephone: 213-978-3800
Date Made Active in Reports: 08/22/2019	Last EDR Contact: 12/18/2020
Number of Days to Update: 58	Next Scheduled EDR Contact: 04/05/2021
	Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/30/2012	Source: Los Angeles County Department of Public Works
Date Data Arrived at EDR: 04/17/2019	Telephone: 626-458-6973
Date Made Active in Reports: 05/29/2019	Last EDR Contact: 01/15/2021
Number of Days to Update: 42	Next Scheduled EDR Contact: 04/26/2021
	Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 06/25/2019	Telephone: 213-978-3800
Date Made Active in Reports: 08/22/2019	Last EDR Contact: 12/18/2020
Number of Days to Update: 58	Next Scheduled EDR Contact: 04/05/2021
	Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 06/01/2019	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 06/25/2019	Telephone: 213-978-3800
Date Made Active in Reports: 08/22/2019	Last EDR Contact: 12/18/2020
Number of Days to Update: 58	Next Scheduled EDR Contact: 04/05/2021
	Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 07/20/2020	Source: Community Health Services
Date Data Arrived at EDR: 10/09/2020	Telephone: 323-890-7806
Date Made Active in Reports: 12/29/2020	Last EDR Contact: 01/12/2021
Number of Days to Update: 81	Next Scheduled EDR Contact: 04/26/2021
	Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017	Source: City of El Segundo Fire Department
Date Data Arrived at EDR: 04/19/2017	Telephone: 310-524-2236
Date Made Active in Reports: 05/10/2017	Last EDR Contact: 10/07/2020
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/25/2021
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019	Source: City of Long Beach Fire Department
Date Data Arrived at EDR: 04/23/2019	Telephone: 562-570-2563
Date Made Active in Reports: 06/27/2019	Last EDR Contact: 01/19/2021
Number of Days to Update: 65	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 09/11/2020	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 10/07/2020	Telephone: 310-618-2973
Date Made Active in Reports: 12/23/2020	Last EDR Contact: 01/19/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020	Source: Madera County Environmental Health
Date Data Arrived at EDR: 08/12/2020	Telephone: 559-675-7823
Date Made Active in Reports: 10/23/2020	Last EDR Contact: 11/11/2020
Number of Days to Update: 72	Next Scheduled EDR Contact: 03/01/2021
	Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018	Source: Public Works Department Waste Management
Date Data Arrived at EDR: 10/04/2018	Telephone: 415-473-6647
Date Made Active in Reports: 11/02/2018	Last EDR Contact: 12/21/2020
Number of Days to Update: 29	Next Scheduled EDR Contact: 04/12/2021
	Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/28/2020	Source: Merced County Environmental Health
Date Data Arrived at EDR: 07/30/2020	Telephone: 209-381-1094
Date Made Active in Reports: 07/31/2020	Last EDR Contact: 11/11/2020
Number of Days to Update: 1	Next Scheduled EDR Contact: 03/01/2021
	Data Release Frequency: Varies

MONO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA MONO: CUPA Facility List CUPA Facility List

Date of Government Version: 08/20/2020
Date Data Arrived at EDR: 08/24/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 77

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 11/15/2020
Next Scheduled EDR Contact: 03/08/3021
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 07/13/2020
Date Data Arrived at EDR: 07/15/2020
Date Made Active in Reports: 07/31/2020
Number of Days to Update: 56

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 12/21/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List

CUPA facility list.

Date of Government Version: 10/26/2020
Date Data Arrived at EDR: 10/28/2020
Date Made Active in Reports: 01/15/2021
Number of Days to Update: 79

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/01/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/01/2020
Date Data Arrived at EDR: 11/06/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 81

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/02/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/01/2020
Date Data Arrived at EDR: 11/03/2020
Date Made Active in Reports: 01/21/2021
Number of Days to Update: 79

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/02/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 11/24/2020
Date Data Arrived at EDR: 11/24/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 1

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List

Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/06/2020
Date Data Arrived at EDR: 10/07/2020
Date Made Active in Reports: 11/03/2020
Number of Days to Update: 27

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST RIVERSIDE: Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 10/06/2020
Date Data Arrived at EDR: 10/07/2020
Date Made Active in Reports: 11/03/2020
Number of Days to Update: 27

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/18/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/15/2020
Number of Days to Update: 76

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/30/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/24/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/17/2020
Number of Days to Update: 78

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/30/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 10/30/2020
Date Made Active in Reports: 01/15/2021
Number of Days to Update: 77

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 08/04/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 82

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 08/31/2020
Date Data Arrived at EDR: 08/31/2020
Date Made Active in Reports: 11/23/2020
Number of Days to Update: 84

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/14/2020
Date Data Arrived at EDR: 07/16/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 75

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 11/05/2020
Date Data Arrived at EDR: 11/06/2020
Date Made Active in Reports: 01/27/2021
Number of Days to Update: 82

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/05/2020
Date Data Arrived at EDR: 11/06/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 81

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List

Cupa Facility List.

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 11/13/2020
Date Made Active in Reports: 02/01/2021
Number of Days to Update: 80

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/11/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA SANTA BARBARA: CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List

Cupa facility list

Date of Government Version: 08/20/2020
Date Data Arrived at EDR: 08/20/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 81

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List

CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

SHASTA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA SHASTA: CUPA Facility List Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 08/25/2020
Date Data Arrived at EDR: 08/26/2020
Date Made Active in Reports: 09/16/2020
Number of Days to Update: 21

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/03/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List Cupa Facility list

Date of Government Version: 12/15/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 7

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 09/18/2020
Date Data Arrived at EDR: 09/22/2020
Date Made Active in Reports: 12/14/2020
Number of Days to Update: 83

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List Cupa facility list

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 77

Source: Stanislaus County Department of Environmental Protection
Telephone: 209-525-6751
Last EDR Contact: 01/11/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Varies

SUTTER COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST SUTTER: Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 08/25/2020
Date Data Arrived at EDR: 08/26/2020
Date Made Active in Reports: 11/17/2020
Number of Days to Update: 83

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List

Cupa facilities

Date of Government Version: 08/11/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 75

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List

Cupa facility list

Date of Government Version: 10/14/2020
Date Data Arrived at EDR: 10/15/2020
Date Made Active in Reports: 01/05/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List

Cupa program facilities

Date of Government Version: 10/30/2020
Date Data Arrived at EDR: 11/03/2020
Date Made Active in Reports: 01/20/2021
Number of Days to Update: 78

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List

Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Division of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

VENTURA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 09/28/2020	Source: Ventura County Environmental Health Division
Date Data Arrived at EDR: 10/22/2020	Telephone: 805-654-2813
Date Made Active in Reports: 01/12/2021	Last EDR Contact: 01/19/2021
Number of Days to Update: 82	Next Scheduled EDR Contact: 05/02/2021
	Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011	Source: Environmental Health Division
Date Data Arrived at EDR: 12/01/2011	Telephone: 805-654-2813
Date Made Active in Reports: 01/19/2012	Last EDR Contact: 12/21/2020
Number of Days to Update: 49	Next Scheduled EDR Contact: 04/12/2021
	Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008	Source: Environmental Health Division
Date Data Arrived at EDR: 06/24/2008	Telephone: 805-654-2813
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 11/05/2020
Number of Days to Update: 37	Next Scheduled EDR Contact: 02/22/2021
	Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/28/2020	Source: Ventura County Resource Management Agency
Date Data Arrived at EDR: 10/22/2020	Telephone: 805-654-2813
Date Made Active in Reports: 01/12/2021	Last EDR Contact: 01/20/2021
Number of Days to Update: 82	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/26/2020	Source: Environmental Health Division
Date Data Arrived at EDR: 09/08/2020	Telephone: 805-654-2813
Date Made Active in Reports: 12/01/2020	Last EDR Contact: 12/08/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 03/22/2021
	Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 12/21/2020	Source: Yolo County Department of Health
Date Data Arrived at EDR: 12/23/2020	Telephone: 530-666-8646
Date Made Active in Reports: 01/04/2021	Last EDR Contact: 12/20/2020
Number of Days to Update: 12	Next Scheduled EDR Contact: 04/11/2021
	Data Release Frequency: Annually

YUBA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA YUBA: CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 01/26/2021
Date Data Arrived at EDR: 01/28/2021
Date Made Active in Reports: 02/03/2021
Number of Days to Update: 6

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 10/20/2020
Date Made Active in Reports: 11/02/2020
Number of Days to Update: 13

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/09/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/29/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/11/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 12/10/2019
Number of Days to Update: 69

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/03/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

OHANESIAN ESTATES
2122 S PEACH AVE
FRESNO, CA 93725

TARGET PROPERTY COORDINATES

Latitude (North):	36.720303 - 36° 43' 13.09"
Longitude (West):	119.722987 - 119° 43' 22.75"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	256802.6
UTM Y (Meters):	4067099.8
Elevation:	307 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5603192 MALAGA, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
06019C2130H	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
Not Reported	

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
MALAGA	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

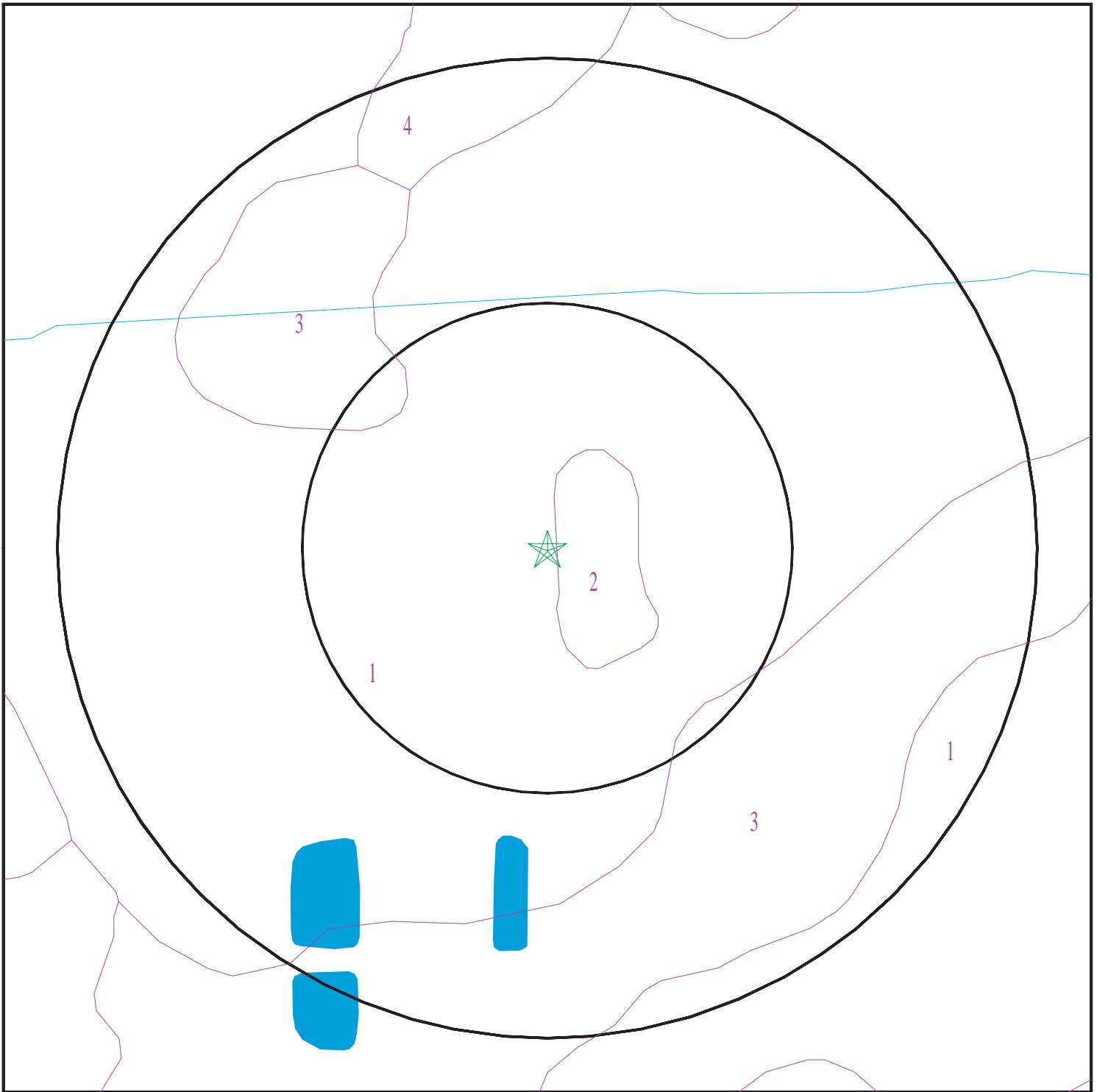
Era: Cenozoic
System: Quaternary
Series: Quaternary
Code: Q (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 6356858.2s



- ★ Target Property
- SSURGO Soil
- Water

0 1/16 1/8 1/4 Miles



SITE NAME: Ohanesian Estates
ADDRESS: 2122 S Peach Ave
Fresno CA 93725
LAT/LONG: 36.720303 / 119.722987

CLIENT: RMA Geoscience
CONTACT: Megan Stewart
INQUIRY #: 6356858.2s
DATE: February 04, 2021 5:03 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: RAMONA

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1
2	11 inches	24 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1
3	24 inches	38 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
4	38 inches	59 inches	coarse sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1

Soil Map ID: 2

Soil Component Name: HANFORD

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1
2	16 inches	72 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 3

Soil Component Name: RAMONA

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1 Min: 0.1	Max: Min:
2	11 inches	24 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1 Min: 0.1	Max: Min:
3	24 inches	40 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1 Min: 0.1	Max: Min:
4	40 inches	53 inches	cemented	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1 Min: 0.1	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 4

Soil Component Name: GREENFIELD

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1
2	16 inches	38 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1
3	38 inches	59 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
2	USGS40000176807	1/4 - 1/2 Mile South
A7	USGS40000176895	1/4 - 1/2 Mile NW
D15	USGS40000176971	1/2 - 1 Mile North
F22	USGS40000176941	1/2 - 1 Mile NW
25	USGS40000176980	1/2 - 1 Mile North
G30	USGS40000176946	1/2 - 1 Mile NE
K43	USGS40000176734	1/2 - 1 Mile SW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

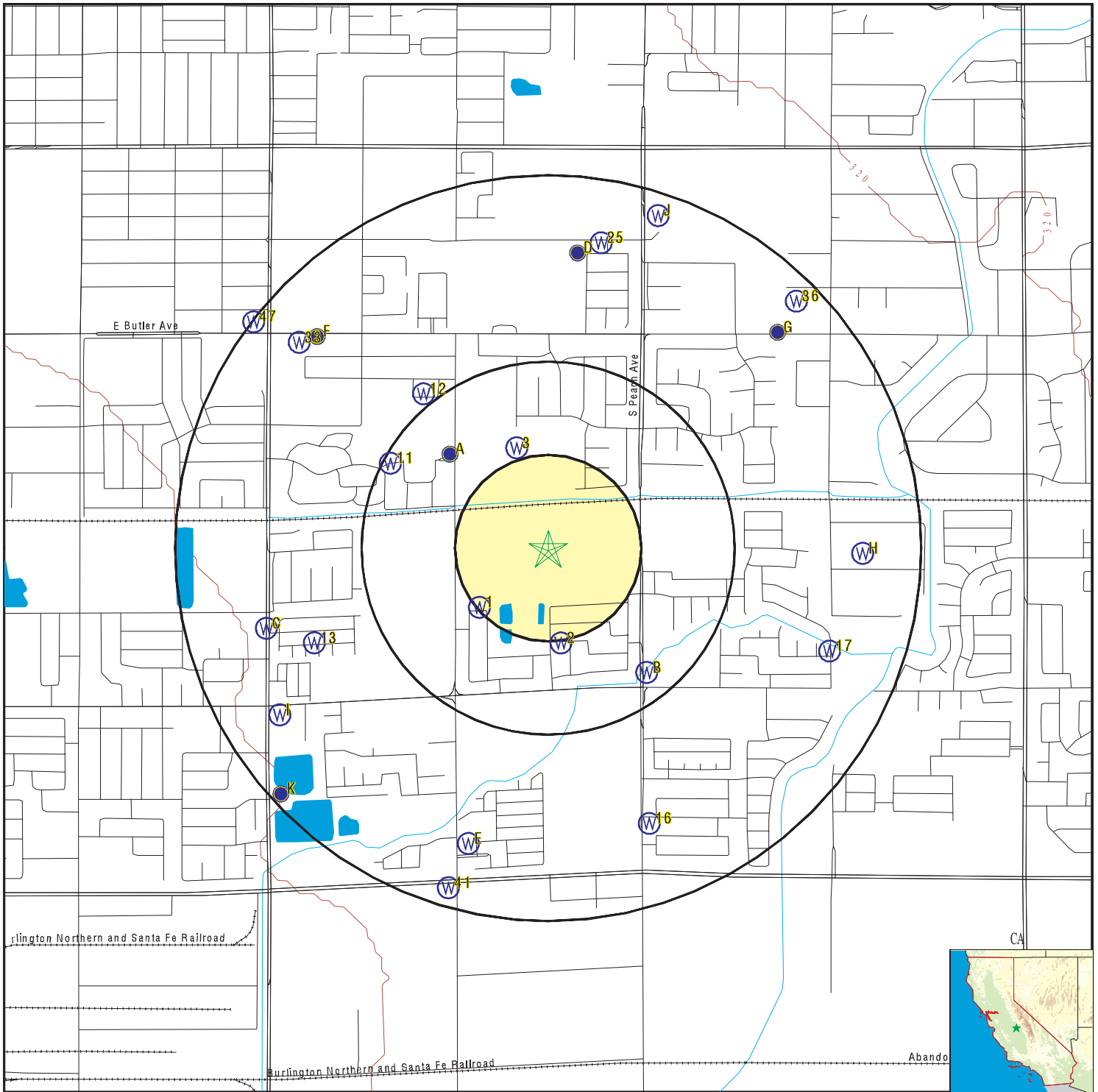
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	CADPR0000001130	1/8 - 1/4 Mile SW
3	CAEDF0000017697	1/4 - 1/2 Mile NNW
A4	CADDW0000006843	1/4 - 1/2 Mile NW
A5	CAUSGSN00011085	1/4 - 1/2 Mile NW
A6	CADDW0000001826	1/4 - 1/2 Mile NW
B8	12242	1/4 - 1/2 Mile SE
B9	CADDW0000007729	1/4 - 1/2 Mile SE
B10	CADDW0000022289	1/4 - 1/2 Mile SE
11	CALLNL000001037	1/4 - 1/2 Mile WNW
12	CADWR0000037265	1/2 - 1 Mile NW
13	12163	1/2 - 1 Mile WSW
C14	CADDW0000003627	1/2 - 1 Mile WSW
16	CADDW0000008657	1/2 - 1 Mile SSE
17	CADDW0000010916	1/2 - 1 Mile ESE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C18	12159	1/2 - 1 Mile WSW
D19	CADDW0000021732	1/2 - 1 Mile North
D20	CADDW0000016617	1/2 - 1 Mile North
E21	CADDW0000022824	1/2 - 1 Mile SSW
G23	12218	1/2 - 1 Mile NE
E24	12247	1/2 - 1 Mile SSW
H26	CAUSGSN00002557	1/2 - 1 Mile East
H27	CAUSGS000002685	1/2 - 1 Mile East
I28	CALLNL000000674	1/2 - 1 Mile WSW
I29	12246	1/2 - 1 Mile WSW
G31	CADDW0000005401	1/2 - 1 Mile NE
G32	CADDW0000003991	1/2 - 1 Mile NE
33	CADWR0000006118	1/2 - 1 Mile NW
F34	CADDW0000003431	1/2 - 1 Mile NW
J35	12213	1/2 - 1 Mile NNE
36	CADWR0000030090	1/2 - 1 Mile NE
J37	23285	1/2 - 1 Mile NNE
J38	12212	1/2 - 1 Mile NNE
J39	12210	1/2 - 1 Mile NNE
J40	12206	1/2 - 1 Mile NNE
41	CADDW0000017892	1/2 - 1 Mile SSW
K42	23272	1/2 - 1 Mile SW
K44	CAUSGSN00015981	1/2 - 1 Mile SW
K45	CAUSGS000000407	1/2 - 1 Mile SW
K46	CADDW0000001090	1/2 - 1 Mile SW
47	CADDW0000005607	1/2 - 1 Mile NW

PHYSICAL SETTING SOURCE MAP - 6356858.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: Ohanesian Estates ADDRESS: 2122 S Peach Ave Fresno CA 93725 LAT/LONG: 36.720303 / 119.722987	CLIENT: RMA Geoscience CONTACT: Megan Stewart INQUIRY #: 6356858.2s DATE: February 04, 2021 5:03 pm
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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
SW
1/8 - 1/4 Mile
Lower

CA WELLS CADPR0000001130

Well ID:	84193	Well Type:	UNK
Source:	Department of Pesticide Regulation		
Other Name:	84193	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=84193&store_num=		
GeoTracker Data:	Not Reported		

2
South
1/4 - 1/2 Mile
Lower

FED USGS USGS40000176807

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	014S021E18H001M	Type:	Well
Description:	Not Reported	HUC:	18030012
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1963-02-01
Feet below surface:	49.22	Feet to sea level:	Not Reported
Note:	Not Reported		

3
NNW
1/4 - 1/2 Mile
Higher

CA WELLS CAEDF0000017697

Well ID:	AGW080013691-HOME WELL	Well Type:	MONITORING
Source:	Agricultural Lands	Other Name:	HOME WELL
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=AGLAND&samp_date=&global_id=AGW080013691&assigned_name=HOME WELL&store_num=		
GeoTracker Data:	Not Reported		

A4
NW
1/4 - 1/2 Mile
Higher

CA WELLS CADDW0000006843

Well ID:	1010007-359	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 164-2 INF	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-359&store_num=		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

GeoTracker Data: Not Reported

**A5
NW
1/4 - 1/2 Mile
Higher**

CA WELLS CAUSGSN00011085

Well ID:	USGS-364326119434001	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-364326119434001	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-364326119434001&store_num=		
GeoTracker Data:	Not Reported		

**A6
NW
1/4 - 1/2 Mile
Higher**

CA WELLS CADDW0000001826

Well ID:	1010007-276	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 164-1 - RAW	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-276&store_num=		
GeoTracker Data:	Not Reported		

**A7
NW
1/4 - 1/2 Mile
Higher**

FED USGS USGS40000176895

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	014S021E07P001M	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19920925	Well Depth:	735
Well Depth Units:	ft	Well Hole Depth:	748
Well Hole Depth Units:	ft		

**B8
SE
1/4 - 1/2 Mile
Higher**

CA WELLS 12242

Seq:	12242	Prim sta c:	14S/21E-17E02 M
Frds no:	1010007297	County:	10
District:	11	User id:	AGE
System no:	1010007	Water type:	G
Source nam:	WELL 100-2	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	364256.0	Longitude:	1194303.0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Precision:	3	Status:	AU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1010007	System nam:	Fresno, City Of
Hqname:	Not Reported	Address:	2326 FRESNO STREET
City:	FRESNO	State:	CA
Zip:	93721	Zip ext:	2988
Pop serv:	390350	Connection:	99005
Area serve:	CITY OF FRESNO		
Sample date:	09-MAR-15	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	18-FEB-15	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	21-JAN-15	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	16-DEC-14	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	25-NOV-14	Finding:	1.3
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dir:	1.		
Sample date:	18-NOV-14	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	15-OCT-14	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	16-SEP-14	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	06-AUG-14	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	16-JUL-14	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	10-JUN-14	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	14-MAY-14	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	17-APR-14	Finding:	34.

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Chemical: Dir:	NITRATE (AS NO3) 2.	Report units:	MG/L
Sample date: Chemical: Dir:	02-APR-14 TOTAL DISSOLVED SOLIDS 0.	Finding: Report units:	350. MG/L
Sample date: Chemical: Dir:	02-APR-14 LANGELIER INDEX @ 60 C 0.	Finding: Report units:	0.69 Not Reported
Sample date: Chemical: Dir:	02-APR-14 NITRATE (AS NO3) 2.	Finding: Report units:	33. MG/L
Sample date: Chemical: Dir:	02-APR-14 AGGRSSIVE INDEX (CORROSIVITY) 0.	Finding: Report units:	13. Not Reported
Sample date: Chemical: Dir:	02-APR-14 COLOR 0.	Finding: Report units:	5. UNITS
Sample date: Chemical: Dir:	02-APR-14 SPECIFIC CONDUCTANCE 0.	Finding: Report units:	560. US
Sample date: Chemical: Dir:	02-APR-14 PH, LABORATORY 0.	Finding: Report units:	8.2 Not Reported
Sample date: Chemical: Dir:	02-APR-14 ALKALINITY (TOTAL) AS CaCO3 0.	Finding: Report units:	220. MG/L
Sample date: Chemical: Dir:	02-APR-14 BICARBONATE ALKALINITY 0.	Finding: Report units:	260. MG/L
Sample date: Chemical: Dir:	02-APR-14 HARDNESS (TOTAL) AS CaCO3 0.	Finding: Report units:	230. MG/L
Sample date: Chemical: Dir:	02-APR-14 CALCIUM 0.	Finding: Report units:	49. MG/L
Sample date: Chemical: Dir:	02-APR-14 MAGNESIUM 0.	Finding: Report units:	26. MG/L
Sample date: Chemical: Dir:	02-APR-14 SODIUM 0.	Finding: Report units:	24. MG/L
Sample date: Chemical: Dir:	02-APR-14 POTASSIUM 0.	Finding: Report units:	2.6 MG/L
Sample date: Chemical: Dir:	02-APR-14 CHLORIDE 0.	Finding: Report units:	17. MG/L

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	02-APR-14	Finding:	33.
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	10-FEB-14	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	09-JAN-14	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	10-DEC-13	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	13-NOV-13	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	10-OCT-13	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	04-SEP-13	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	08-AUG-13	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	10-JUL-13	Finding:	4.42
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dir:	3.		
Sample date:	10-JUL-13	Finding:	1.64
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	10-JUL-13	Finding:	0.348
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	09-JUL-13	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	10-JUN-13	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	17-MAY-13	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	19-MAR-13	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	05-MAR-13	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	2.		
Sample date:	06-FEB-13	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	04-JAN-13	Finding:	33.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	07-DEC-12	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	01-NOV-12	Finding:	33.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	03-OCT-12	Finding:	32.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	07-SEP-12	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		

**B9
SE
1/4 - 1/2 Mile
Higher**

CA WELLS CADDW0000007729

Well ID:	1010007-297	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 100-2 - RAW	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-297&store_num=		
GeoTracker Data:	Not Reported		

**B10
SE
1/4 - 1/2 Mile
Higher**

CA WELLS CADDW0000002289

Well ID:	1010007-234	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 100-1 - RAW	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-234&store_num=		
GeoTracker Data:	Not Reported		

**11
WNW
1/4 - 1/2 Mile
Higher**

CA WELLS CALLNL000001037

Well ID:	101431	Well Type:	MUNICIPAL
Source:	Lawrence Livermore National Laboratory		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Other Name:	14S/21E-01P01 M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	Not Reported		
GeoTracker Data:	Not Reported		
Chemical:	Helium-3/Helium-4	Results:	.000000606175
Units:	atom ratio	Date:	05/27/2003
Chemical:	Neon	Results:	.000000208912
Units:	cm3STP/g	Date:	05/27/2003
Chemical:	Argon	Results:	.000337486
Units:	cm3STP/g	Date:	05/27/2003
Chemical:	Helium-4	Results:	.000000378423
Units:	cm3STP/g	Date:	05/27/2003
Chemical:	Krypton	Results:	.0000000749942
Units:	cm3STP/g	Date:	05/27/2003
Chemical:	Tritium (Hydrogen 3)	Results:	1.09
Units:	pCi/L	Date:	06/24/2003

**12
NW
1/2 - 1 Mile
Higher**

CA WELLS CADWR0000037265

Well ID:	14S21E07H002M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	14S21E07H002M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=14S21E07H002M&store_num=		
GeoTracker Data:	Not Reported		

**13
WSW
1/2 - 1 Mile
Lower**

CA WELLS 12163

Seq:	12163	Prim sta c:	14S/20E-13R01 M
Frds no:	1010007011	County:	10
District:	11	User id:	AGE
System no:	1010007	Water type:	G
Source nam:	WELL 206	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	364300.0	Longitude:	1194400.0
Precision:	8	Status:	AR
Comment 1:	FORMERLY CALWA CWD	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1010007	System nam:	Fresno, City Of

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Hqname:	Not Reported	Address:	2326 FRESNO STREET
City:	FRESNO	State:	CA
Zip:	93721	Zip ext:	2988
Pop serv:	390350	Connection:	99005
Area serve:	CITY OF FRESNO		
Sample date:	14-FEB-18	Finding:	0.52
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	27-JAN-17	Finding:	0.41
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	27-JAN-17	Finding:	110.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	27-JAN-17	Finding:	0.16
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dir:	0.1		
Sample date:	27-JAN-17	Finding:	3.2
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	27-JAN-17	Finding:	6.7
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	27-JAN-17	Finding:	7.8
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	27-JAN-17	Finding:	4.8
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	27-JAN-17	Finding:	7.9
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	27-JAN-17	Finding:	40.
Chemical:	HARDNESS (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	27-JAN-17	Finding:	0.51
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	27-JAN-17	Finding:	57.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	27-JAN-17	Finding:	46.
Chemical:	ALKALINITY (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	27-JAN-17	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	27-JAN-17	Finding:	120.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	27-JAN-17	Finding:	0.51
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	27-JAN-17	Finding:	11.
Chemical:	AGGRSSIVE INDEX (CORROSIIVITY)	Report units:	Not Reported
Dir:	0.		
Sample date:	23-JAN-17	Finding:	1.49
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	25-NOV-14	Finding:	1.7
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dir:	1.		
Sample date:	07-MAY-14	Finding:	0.12
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dir:	0.1		
Sample date:	07-MAY-14	Finding:	5.
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	07-MAY-14	Finding:	4.1
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	07-MAY-14	Finding:	12.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	07-MAY-14	Finding:	6.7
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	07-MAY-14	Finding:	13.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	07-MAY-14	Finding:	60.
Chemical:	HARDNESS (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	07-MAY-14	Finding:	94.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	07-MAY-14	Finding:	77.
Chemical:	ALKALINITY (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	07-MAY-14	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	07-MAY-14	Finding:	170.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.	Finding:	130.
Sample date:	07-MAY-14	Report units:	MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Dir:	0.		
Sample date:	07-MAY-14	Finding:	6.2
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	07-MAY-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dir:	0.		
Sample date:	07-NOV-13	Finding:	6.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	13-JUN-12	Finding:	7.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		

C14
WSW
1/2 - 1 Mile
Lower

CA WELLS CADDW0000003627

Well ID:	1000002-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 02 - INACTIVE	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1000002-001&store_num=		
GeoTracker Data:	Not Reported		

D15
North
1/2 - 1 Mile
Higher

FED USGS USGS40000176971

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18030012
Monitor Location:	014S021E07H002M	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported		
Contrib Drainage Area:	Not Reported		
Aquifer:	Central Valley aquifer system	Aquifer Type:	Not Reported
Formation Type:	Not Reported	Well Depth:	380
Construction Date:	19720207	Well Hole Depth:	435
Well Depth Units:	ft		
Well Hole Depth Units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

16
SSE
1/2 - 1 Mile
Lower

CA WELLS CADDW0000008657

Well ID:	1010007-682	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 341 - INACTIVE	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-682&store_num=		
GeoTracker Data:	Not Reported		

17
ESE
1/2 - 1 Mile
Higher

CA WELLS CADDW0000010916

Well ID:	1010007-678	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 331 - RAW	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-678&store_num=		
GeoTracker Data:	Not Reported		

C18
WSW
1/2 - 1 Mile
Lower

CA WELLS 12159

Seq:	12159	Prim sta c:	14S/20E-13G01 M
Frds no:	1000002001	County:	10
District:	40	User id:	10C
System no:	1000002	Water type:	G
Source nam:	WELL 02	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	364302.0	Longitude:	1194410.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1000002	System nam:	Anoosh Van Water System
Hqname:	Not Reported	Address:	Not Reported
City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported
Pop serv:	0	Connection:	0
Area serve:	Not Reported		

D19
North
1/2 - 1 Mile
Higher

CA WELLS CADDW0000021732

Well ID:	1010007-364	Well Type:	MUNICIPAL
Source:	Department of Health Services		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Other Name:	WELL 082-2 (RAW)	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-364&store_num=		
GeoTracker Data:	Not Reported		

**D20
North
1/2 - 1 Mile
Higher**

CA WELLS CADDW0000016617

Well ID:	1010007-216	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 082-1 RAW	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-216&store_num=		
GeoTracker Data:	Not Reported		

**E21
SSW
1/2 - 1 Mile
Lower**

CA WELLS CADDW0000022824

Well ID:	1000342-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	2575 S WILLOW	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1000342-001&store_num=		
GeoTracker Data:	Not Reported		

**F22
NW
1/2 - 1 Mile
Higher**

FED USGS USGS40000176941

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	014S021E07M001M	Type:	Well
Description:	Not Reported	HUC:	18030012
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19610814	Well Depth:	326
Well Depth Units:	ft	Well Hole Depth:	345
Well Hole Depth Units:	ft		

**G23
NE
1/2 - 1 Mile
Higher**

CA WELLS 12218

Seq:	12218	Prim sta c:	14S/21E-08F01 M
Frds no:	1010007275	County:	10
District:	11	User id:	AGE

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System no:	1010007	Water type:	G
Source nam:	WELL 153-1	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	364342.0	Longitude:	1194240.0
Precision:	3	Status:	AU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1010007	System nam:	Fresno, City Of
Hqname:	Not Reported	Address:	2326 FRESNO STREET
City:	FRESNO	State:	CA
Zip:	93721	Zip ext:	2988
Pop serv:	390350	Connection:	99005
Area serve:	CITY OF FRESNO		
Sample date:	19-MAR-18	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	14-MAR-18	Finding:	3.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dir:	1.e-002		
Sample date:	14-MAR-18	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	06-MAR-18	Finding:	4.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	28-FEB-18	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	21-FEB-18	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	13-FEB-18	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	12-FEB-18	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	06-FEB-18	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	30-JAN-18	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	26-JAN-18	Finding:	1.06
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	26-JAN-18	Finding:	0.365
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.		
Sample date:	26-JAN-18	Finding:	4.53
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dir:	3.		
Sample date:	23-JAN-18	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	17-JAN-18	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	10-JAN-18	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	05-JAN-18	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	27-DEC-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	18-DEC-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	15-DEC-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	11-DEC-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	06-DEC-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	06-DEC-17	Finding:	3.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dir:	1.e-002		
Sample date:	27-NOV-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	20-NOV-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	13-NOV-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	07-NOV-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	30-OCT-17	Finding:	5.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	25-OCT-17	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	16-OCT-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	09-OCT-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	04-OCT-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	26-SEP-17	Finding:	3.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	18-SEP-17	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	12-SEP-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	08-SEP-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	28-AUG-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	22-AUG-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	14-AUG-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	08-AUG-17	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	31-JUL-17	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	24-JUL-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	20-JUL-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.4		
Sample date:	12-JUL-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	03-JUL-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	26-JUN-17	Finding:	4.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	20-JUN-17	Finding:	4.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	12-JUN-17	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	05-JUN-17	Finding:	4.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	02-JUN-17	Finding:	4.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	22-MAY-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	16-MAY-17	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	10-MAY-17	Finding:	3.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	01-MAY-17	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	24-APR-17	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	17-APR-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	10-APR-17	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	07-APR-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	27-MAR-17	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	21-MAR-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	14-MAR-17	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	08-MAR-17	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	03-MAR-17	Finding:	220.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	03-MAR-17	Finding:	2.9e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dir:	1.e-002		
Sample date:	03-MAR-17	Finding:	3.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dir:	1.		
Sample date:	03-MAR-17	Finding:	0.11
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dir:	0.1		
Sample date:	03-MAR-17	Finding:	7.9
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	03-MAR-17	Finding:	11.
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	03-MAR-17	Finding:	2.1
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	03-MAR-17	Finding:	37.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	03-MAR-17	Finding:	13.
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	03-MAR-17	Finding:	26.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	03-MAR-17	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	03-MAR-17	Finding:	200.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.		
Sample date:	03-MAR-17	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	03-MAR-17	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	03-MAR-17	Finding:	360.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	03-MAR-17	Finding:	0.12
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dir:	0.		
Sample date:	03-MAR-17	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dir:	0.		
Sample date:	03-MAR-17	Finding:	3.6
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	03-MAR-17	Finding:	120.
Chemical:	HARDNESS (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	27-FEB-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	22-FEB-17	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	13-FEB-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	08-FEB-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	30-JAN-17	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	24-JAN-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	19-JAN-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	11-JAN-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	03-JAN-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	27-DEC-16	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	21-DEC-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	13-DEC-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	08-DEC-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	01-DEC-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	21-NOV-16	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	15-NOV-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	09-NOV-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	24-OCT-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	19-OCT-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	14-OCT-16	Finding:	4.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	03-OCT-16	Finding:	4.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	27-SEP-16	Finding:	4.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	21-SEP-16	Finding:	4.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	15-SEP-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.4		
Sample date:	08-SEP-16	Finding:	4.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	30-AUG-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	23-AUG-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	16-AUG-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	10-AUG-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	05-AUG-16	Finding:	4.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	25-JUL-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	18-JUL-16	Finding:	4.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	11-JUL-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	07-JUL-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	27-JUN-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	21-JUN-16	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	13-JUN-16	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	07-JUN-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	31-MAY-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	23-MAY-16	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	17-MAY-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	09-MAY-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	03-MAY-16	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	27-APR-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	19-APR-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	11-APR-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	05-APR-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	29-MAR-16	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	21-MAR-16	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	14-MAR-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	07-MAR-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	01-MAR-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	22-FEB-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	16-FEB-16	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	08-FEB-16	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.4		
Sample date:	02-FEB-16	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	25-JAN-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	19-JAN-16	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	11-JAN-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	06-JAN-16	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	08-SEP-15	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	26-NOV-14	Finding:	3.5
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dir:	1.		
Sample date:	14-JUL-14	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	09-JUN-14	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	09-JUN-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dir:	0.		
Sample date:	09-JUN-14	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	09-JUN-14	Finding:	0.47
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dir:	0.		
Sample date:	09-JUN-14	Finding:	230.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	09-JUN-14	Finding:	5.7e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dir:	1.e-002		
Sample date:	09-JUN-14	Finding:	11.
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	09-JUN-14	Finding:	13.
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	09-JUN-14	Finding:	34.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	09-JUN-14	Finding:	14.
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	09-JUN-14	Finding:	29.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	09-JUN-14	Finding:	130.
Chemical:	HARDNESS (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	09-JUN-14	Finding:	210.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	09-JUN-14	Finding:	8.3
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	09-JUN-14	Finding:	400.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	30-APR-14	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	30-APR-14	Finding:	2.
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	30-APR-14	Finding:	12.
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	30-APR-14	Finding:	11.
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	30-APR-14	Finding:	2.2
Chemical:	ARSENIC	Report units:	UG/L
Dir:	2.		
Sample date:	30-APR-14	Finding:	63.
Chemical:	COPPER	Report units:	UG/L
Dir:	50.		
Sample date:	30-APR-14	Finding:	5.3e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dir:	1.e-002		
Sample date:	30-APR-14	Finding:	240.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.		
Sample date:	30-APR-14	Finding:	0.36
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dir:	0.		
Sample date:	30-APR-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dir:	0.		
Sample date:	30-APR-14	Finding:	29.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	30-APR-14	Finding:	130.
Chemical:	HARDNESS (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	30-APR-14	Finding:	390.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	30-APR-14	Finding:	35.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	30-APR-14	Finding:	14.
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	30-APR-14	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	30-APR-14	Finding:	200.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	23-SEP-13	Finding:	20.
Chemical:	NITRATE (AS NO ₃)	Report units:	MG/L
Dir:	2.		
Sample date:	13-SEP-13	Finding:	20.
Chemical:	NITRATE (AS NO ₃)	Report units:	MG/L
Dir:	2.		
Sample date:	29-JUL-13	Finding:	20.
Chemical:	NITRATE (AS NO ₃)	Report units:	MG/L
Dir:	2.		
Sample date:	12-JUL-13	Finding:	20.
Chemical:	NITRATE (AS NO ₃)	Report units:	MG/L
Dir:	2.		
Sample date:	02-JUL-13	Finding:	20.
Chemical:	NITRATE (AS NO ₃)	Report units:	MG/L
Dir:	2.		
Sample date:	20-MAY-13	Finding:	20.
Chemical:	NITRATE (AS NO ₃)	Report units:	MG/L
Dir:	2.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	07-MAY-13	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	22-APR-13	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	12-MAR-13	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	04-JAN-13	Finding:	33.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	24-APR-12	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		

**E24
SSW
1/2 - 1 Mile
Lower**

CA WELLS 12247

Seq:	12247	Prim sta c:	14S/21E-18Q01 M
Frds no:	1000342001	County:	10
District:	40	User id:	10C
System no:	1000342	Water type:	G
Source nam:	2575 S WILLOW	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	364232.0	Longitude:	1194335.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1000342	System nam:	The Willows
Hqname:	Not Reported	Address:	2800 28th st., #222
City:	SANTA MONICA	State:	CA
Zip:	90405	Zip ext:	Not Reported
Pop serv:	5	Connection:	262
Area serve:	Not Reported		

**25
North
1/2 - 1 Mile
Higher**

FED USGS USGS40000176980

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18030012
Monitor Location:	014S021E07H001M	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Units:	Not Reported
Drainage Area:	Not Reported		
Contrib Drainage Area:	Not Reported		
Aquifer:	Central Valley aquifer system	Aquifer Type:	Not Reported
Formation Type:	Not Reported	Well Depth:	Not Reported
Construction Date:	Not Reported	Well Hole Depth:	Not Reported
Well Depth Units:	Not Reported		
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground water levels, Number of Measurements:	1	Level reading date:	1963-10-21
Feet below surface:	56.61	Feet to sea level:	Not Reported
Note:	Not Reported		

**H26
East
1/2 - 1 Mile
Higher**

CA WELLS CAUSGSN00002557

Well ID:	USGS-364300119420001	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-364300119420001	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&sample_date=&global_id=&assigned_name=USGS-364300119420001&store_num=		
GeoTracker Data:	Not Reported		

**H27
East
1/2 - 1 Mile
Higher**

CA WELLS CAUSGS000002685

Well ID:	S3-MACK-K33	Well Type:	MUNICIPAL
Source:	United States Geological Survey		
Other Name:	S3-MACK-K33	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGS&sample_date=&global_id=&assigned_name=S3-MACK-K33&store_num=		
GeoTracker Data:	Not Reported		

**I28
WSW
1/2 - 1 Mile
Lower**

CA WELLS CALLNL000000674

Well ID:	101411	Well Type:	MUNICIPAL
Source:	Lawrence Livermore National Laboratory		
Other Name:	14S/21E-18M02 M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	Not Reported		
GeoTracker Data:	Not Reported		

Chemical:	Argon	Results:	.000321295
Units:	cm3STP/g	Date:	04/10/2003

Chemical:	Helium-3/Helium-4	Results:	.000000662466
Units:	atom ratio	Date:	04/10/2003

Chemical:	Tritium (Hydrogen 3)	Results:	.04
Units:	pCi/L	Date:	05/15/2003

Chemical:	Krypton	Results:	.0000000698847
Units:	cm3STP/g	Date:	04/10/2003

Chemical:	Neon	Results:	.000000212983
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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Units:	cm3STP/g	Date:	04/10/2003
Chemical:	Xenon	Results:	.00000000970204
Units:	cm3STP/g	Date:	04/10/2003
Chemical:	Helium-4	Results:	.000000316236
Units:	cm3STP/g	Date:	04/10/2003

**I29
WSW
1/2 - 1 Mile
Lower**

CA WELLS 12246

Seq:	12246	Prim sta c:	14S/21E-18M02 M
Frds no:	1010007346	County:	10
District:	11	User id:	AGE
System no:	1010007	Water type:	G
Source nam:	WELL 183	Station ty:	WELL/AMBNT/MUN
Latitude:	364250.0	Longitude:	1194406.0
Precision:	3	Status:	AU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1010007	System nam:	Fresno, City Of
Hqname:	Not Reported	Address:	2326 FRESNO STREET
City:	FRESNO	State:	CA
Zip:	93721	Zip ext:	2988
Pop serv:	390350	Connection:	99005
Area serve:	CITY OF FRESNO		
Sample date:	18-JAN-17	Finding:	0.156
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	18-JAN-17	Finding:	0.747
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	13-JAN-17	Finding:	38.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	13-JAN-17	Finding:	3.8
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	13-JAN-17	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dir:	0.		
Sample date:	13-JAN-17	Finding:	0.19
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	13-JAN-17	Finding:	250.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.		
Sample date:	13-JAN-17	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	13-JAN-17	Finding:	100.
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	13-JAN-17	Finding:	130.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	13-JAN-17	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	13-JAN-17	Finding:	61.
Chemical:	HARDNESS (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	13-JAN-17	Finding:	15.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	13-JAN-17	Finding:	6.
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	13-JAN-17	Finding:	9.
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	13-JAN-17	Finding:	3.2
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	13-JAN-17	Finding:	0.16
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dir:	0.1		
Sample date:	13-JAN-17	Finding:	2.6
Chemical:	ARSENIC	Report units:	UG/L
Dir:	2.		
Sample date:	13-JAN-17	Finding:	5.5
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dir:	1.		
Sample date:	13-JAN-17	Finding:	170.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	08-MAR-16	Finding:	4.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

G30
NE
1/2 - 1 Mile
Higher

FED USGS USGS40000176946

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	014S021E08F002M	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19940624	Well Depth:	260
Well Depth Units:	ft	Well Hole Depth:	265
Well Hole Depth Units:	ft		

G31
NE
1/2 - 1 Mile
Higher

CA WELLS CADDW0000005401

Well ID:	1010007-275	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 153-1 - RAW	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-275&store_num=		
GeoTracker Data:	Not Reported		

G32
NE
1/2 - 1 Mile
Higher

CA WELLS CADDW0000003991

Well ID:	1010007-293	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 153-2 INF	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-293&store_num=		
GeoTracker Data:	Not Reported		

33
NW
1/2 - 1 Mile
Lower

CA WELLS CADWR0000006118

Well ID:	14S21E07M001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	14S21E07M001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=14S21E07M001M&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

F34
NW
1/2 - 1 Mile
Lower

CA WELLS CADDW0000003431

Well ID:	1010007-195	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 061 - RAW - DESTROYED		
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-195&store_num=		
GeoTracker Data:	Not Reported		

J35
NNE
1/2 - 1 Mile
Higher

CA WELLS 12213

Seq:	12213	Prim sta c:	14S/21E-07H03 M
Frds no:	1010007364	County:	10
District:	11	User id:	AGE
System no:	1010007	Water type:	G
Source nam:	WELL 082-2	Station ty:	WELL/AMBNT/MUN
Latitude:	364359.0	Longitude:	1194300.0
Precision:	4	Status:	AU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1010007	System nam:	Fresno, City Of
Hqname:	Not Reported	Address:	2326 FRESNO STREET
City:	FRESNO	State:	CA
Zip:	93721	Zip ext:	2988
Pop serv:	390350	Connection:	99005
Area serve:	CITY OF FRESNO		
Sample date:	30-JAN-17	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dir:	0.		
Sample date:	30-JAN-17	Finding:	3.2
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	30-JAN-17	Finding:	170.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	30-JAN-17	Finding:	5.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dir:	1.		
Sample date:	30-JAN-17	Finding:	3.5
Chemical:	ARSENIC	Report units:	UG/L
Dir:	2.		
Sample date:	30-JAN-17	Finding:	0.13

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Chemical: Dir:	FLUORIDE (F) (NATURAL-SOURCE) 0.1	Report units:	MG/L
Sample date: Chemical: Dir:	30-JAN-17 SULFATE 0.5	Finding: Report units:	4.1 MG/L
Sample date: Chemical: Dir:	30-JAN-17 CHLORIDE 0.	Finding: Report units:	7.7 MG/L
Sample date: Chemical: Dir:	30-JAN-17 SODIUM 0.	Finding: Report units:	28. MG/L
Sample date: Chemical: Dir:	30-JAN-17 MAGNESIUM 0.	Finding: Report units:	7.7 MG/L
Sample date: Chemical: Dir:	30-JAN-17 CALCIUM 0.	Finding: Report units:	17. MG/L
Sample date: Chemical: Dir:	30-JAN-17 HARDNESS (TOTAL) AS CaCO ₃ 0.	Finding: Report units:	76. MG/L
Sample date: Chemical: Dir:	30-JAN-17 NITRATE (AS N) 0.4	Finding: Report units:	3.2 MG/L
Sample date: Chemical: Dir:	30-JAN-17 BICARBONATE ALKALINITY 0.	Finding: Report units:	140. MG/L
Sample date: Chemical: Dir:	30-JAN-17 ALKALINITY (TOTAL) AS CaCO ₃ 0.	Finding: Report units:	110. MG/L
Sample date: Chemical: Dir:	30-JAN-17 PH, LABORATORY 0.	Finding: Report units:	8.1 Not Reported
Sample date: Chemical: Dir:	30-JAN-17 SPECIFIC CONDUCTANCE 0.	Finding: Report units:	270. US
Sample date: Chemical: Dir:	30-JAN-17 TURBIDITY, LABORATORY 0.1	Finding: Report units:	0.21 NTU
Sample date: Chemical: Dir:	23-JAN-17 GROSS ALPHA COUNTING ERROR 0.	Finding: Report units:	0.11 PCI/L
Sample date: Chemical: Dir:	23-JAN-17 GROSS ALPHA MDA95 0.	Finding: Report units:	1.49 PCI/L
Sample date: Chemical: Dir:	16-JUN-16 NITRATE (AS N) 0.4	Finding: Report units:	2.9 MG/L

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	25-NOV-14	Finding:	4.5
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dir:	1.		
Sample date:	03-APR-14	Finding:	4.4
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	03-APR-14	Finding:	6.8
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	03-APR-14	Finding:	28.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	03-APR-14	Finding:	7.4
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	03-APR-14	Finding:	75.
Chemical:	HARDNESS (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	03-APR-14	Finding:	140.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	03-APR-14	Finding:	110.
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	03-APR-14	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	03-APR-14	Finding:	250.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	03-APR-14	Finding:	5.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	03-APR-14	Finding:	170.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	03-APR-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dir:	0.		
Sample date:	03-APR-14	Finding:	18.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

36
NE
1/2 - 1 Mile
Higher

CA WELLS CADWR0000030090

Well ID:	14S21E08A002M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	14S21E08A002M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=14S21E08A002M&store_num=		
GeoTracker Data:	Not Reported		

J37
NNE
1/2 - 1 Mile
Higher

CA WELLS 23285

Seq:	23285	Prim sta c:	K10/007-82TRTED
Frds no:	1010007286	County:	10
District:	11	User id:	AGE
System no:	1010007	Water type:	G
Source nam:	SITE 082-1 (GAC)	Station ty:	WELL/AMBNT
Latitude:	364400.0	Longitude:	1194300.0
Precision:	3	Status:	AT
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1010007	System nam:	Fresno, City Of
Hqname:	Not Reported	Address:	2326 FRESNO STREET
City:	FRESNO	State:	CA
Zip:	93721	Zip ext:	2988
Pop serv:	390350	Connection:	99005
Area serve:	CITY OF FRESNO		

J38
NNE
1/2 - 1 Mile
Higher

CA WELLS 12212

Seq:	12212	Prim sta c:	14S/21E-07H02 M
Frds no:	1010007216	County:	10
District:	11	User id:	AGE
System no:	1010007	Water type:	G
Source nam:	WELL 082-1	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	364400.0	Longitude:	1194300.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1010007	System nam:	Fresno, City Of
Hqname:	Not Reported	Address:	2326 FRESNO STREET
City:	FRESNO	State:	CA
Zip:	93721	Zip ext:	2988

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pop serv:	390350	Connection:	99005
Area serve:	CITY OF FRESNO		
Sample date:	30-DEC-15	Finding:	5.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	19-SEP-14	Finding:	32.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	29-MAY-14	Finding:	18.
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	29-MAY-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dir:	0.		
Sample date:	29-MAY-14	Finding:	11.
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dir:	0.		
Sample date:	29-MAY-14	Finding:	500.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	29-MAY-14	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	29-MAY-14	Finding:	210.
Chemical:	ALKALINITY (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	29-MAY-14	Finding:	250.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	29-MAY-14	Finding:	200.
Chemical:	HARDNESS (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	29-MAY-14	Finding:	40.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	29-MAY-14	Finding:	23.
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	29-MAY-14	Finding:	30.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	29-MAY-14	Finding:	2.5
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	29-MAY-14	Finding:	17.
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	29-MAY-14	Finding:	2.6
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dir:	1.		
Sample date:	29-MAY-14	Finding:	3.1
Chemical:	BROMOFORM (THM)	Report units:	UG/L
Dir:	1.		
Sample date:	29-MAY-14	Finding:	3.5
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dir:	1.		
Sample date:	29-MAY-14	Finding:	1.4
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dir:	1.		
Sample date:	29-MAY-14	Finding:	4.2e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dir:	1.e-002		
Sample date:	29-MAY-14	Finding:	320.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	29-MAY-14	Finding:	0.28
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dir:	0.		
Sample date:	29-MAY-14	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	29-MAY-14	Finding:	0.11
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	18-OCT-13	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	25-SEP-12	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	09-JUL-12	Finding:	2.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dir:	1.e-002		

**J39
NNE
1/2 - 1 Mile
Higher**

CA WELLS 12210

Seq:	12210	Prim sta c:	14S/21E-06Q02 M
Frds no:	1010007211	County:	10
District:	11	User id:	AGE
System no:	1010007	Water type:	G
Source nam:	WELL 077	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	364400.0	Longitude:	1194300.0
Precision:	8	Status:	AU
Comment 1:	Not Reported	Comment 2:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1010007	System nam:	Fresno, City Of
Hqname:	Not Reported	Address:	2326 FRESNO STREET
City:	FRESNO	State:	CA
Zip:	93721	Zip ext:	2988
Pop serv:	390350	Connection:	99005
Area serve:	CITY OF FRESNO		
Sample date:	08-MAY-17	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dir:	0.		
Sample date:	08-MAY-17	Finding:	2.8
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	08-MAY-17	Finding:	0.12
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	08-MAY-17	Finding:	230.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	08-MAY-17	Finding:	1.8
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dir:	1.		
Sample date:	08-MAY-17	Finding:	10.
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	08-MAY-17	Finding:	8.2
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	08-MAY-17	Finding:	2.6
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	08-MAY-17	Finding:	18.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	08-MAY-17	Finding:	18.
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	08-MAY-17	Finding:	28.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	08-MAY-17	Finding:	150.
Chemical:	HARDNESS (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	08-MAY-17	Finding:	2.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	08-MAY-17	Finding:	180.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	08-MAY-17	Finding:	150.
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	08-MAY-17	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	08-MAY-17	Finding:	350.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	08-MAY-17	Finding:	2.5
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dir:	0.		
Sample date:	08-MAR-16	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	25-NOV-14	Finding:	2.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dir:	1.		
Sample date:	02-APR-14	Finding:	0.19
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dir:	0.		
Sample date:	02-APR-14	Finding:	250.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	02-APR-14	Finding:	13.
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	02-APR-14	Finding:	8.5
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	02-APR-14	Finding:	2.7
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	02-APR-14	Finding:	16.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	02-APR-14	Finding:	17.
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	02-APR-14	Finding:	28.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	02-APR-14	Finding:	140.
Chemical:	HARDNESS (TOTAL) AS CaCO ₃	Report units:	MG/L

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.		
Sample date:	02-APR-14	Finding:	180.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	02-APR-14	Finding:	150.
Chemical:	ALKALINITY (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	02-APR-14	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	02-APR-14	Finding:	340.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	02-APR-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dir:	0.		
Sample date:	02-APR-14	Finding:	2.2
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dir:	0.		

**J40
NNE
1/2 - 1 Mile
Higher**

CA WELLS 12206

Seq:	12206	Prim sta c:	14S/21E-05N01 M
Frds no:	1010001011	County:	10
District:	11	User id:	AGE
System no:	1010001	Water type:	G
Source nam:	WELL 11	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	364400.0	Longitude:	1194300.0
Precision:	8	Status:	AU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1010001	System nam:	Bakman Wc - Fresno
Hqname:	Not Reported	Address:	P O BOX 7965
City:	FRESNO	State:	Not Reported
Zip:	93747	Zip ext:	Not Reported
Pop serv:	7000	Connection:	1981
Area serve:	FRESNO VIC		
Sample date:	20-JUL-15	Finding:	4400.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	11-MAY-15	Finding:	21.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	19-JAN-15	Finding:	20.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	27-OCT-14	Finding:	20.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	25-AUG-14	Finding:	21.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	25-AUG-14	Finding:	1.81
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dir:	1.		
Sample date:	05-MAY-14	Finding:	21.4
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	22-JAN-14	Finding:	15.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	22-JAN-14	Finding:	5400.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	22-JAN-14	Finding:	11.9
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dir:	0.		
Sample date:	22-JAN-14	Finding:	23.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	22-JAN-14	Finding:	0.1
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dir:	0.		
Sample date:	22-JAN-14	Finding:	260.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	22-JAN-14	Finding:	2.
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dir:	10.		
Sample date:	22-JAN-14	Finding:	82.9
Chemical:	BARIUM	Report units:	UG/L
Dir:	100.		
Sample date:	22-JAN-14	Finding:	15.
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	22-JAN-14	Finding:	11.
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	22-JAN-14	Finding:	423.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	22-JAN-14	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.		
Sample date:	22-JAN-14	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	22-JAN-14	Finding:	200.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	22-JAN-14	Finding:	175.
Chemical:	HARDNESS (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	22-JAN-14	Finding:	34.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	22-JAN-14	Finding:	22.
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	22-JAN-14	Finding:	0.5
Chemical:	SODIUM ABSORPTION RATIO	Report units:	Not Reported
Dir:	0.		
Sample date:	22-JAN-14	Finding:	4.
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	21-OCT-13	Finding:	21.5
Chemical:	NITRATE (AS NO ₃)	Report units:	MG/L
Dir:	2.		
Sample date:	30-SEP-13	Finding:	24.5
Chemical:	NITRATE (AS NO ₃)	Report units:	MG/L
Dir:	2.		
Sample date:	03-MAY-13	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dir:	0.5		
Sample date:	03-MAY-13	Finding:	1.11
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	03-MAY-13	Finding:	1.12
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	03-MAY-13	Finding:	23.9
Chemical:	NITRATE (AS NO ₃)	Report units:	MG/L
Dir:	2.		
Sample date:	11-MAR-13	Finding:	23.5
Chemical:	NITRATE (AS NO ₃)	Report units:	MG/L
Dir:	2.		
Sample date:	19-NOV-12	Finding:	22.8
Chemical:	NITRATE (AS NO ₃)	Report units:	MG/L
Dir:	2.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	10-SEP-12	Finding:	21.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	17-MAY-12	Finding:	22.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	16-MAR-12	Finding:	23.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		

41
SSW
1/2 - 1 Mile
Lower

CA WELLS CADDW0000017892

Well ID:	1010007-705	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 338-1 RAW	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-705&store_num=		
GeoTracker Data:	Not Reported		

K42
SW
1/2 - 1 Mile
Lower

CA WELLS 23272

Seq:	23272	Prim sta c:	K10/007-183TRTD
Frds no:	1010007330	County:	10
District:	11	User id:	AGE
System no:	1010007	Water type:	G
Source nam:	SITE 183 (GAC)	Station ty:	WELL/AMBNT/MUN
Latitude:	364239.0	Longitude:	1194404.0
Precision:	3	Status:	AT
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1010007	System nam:	Fresno, City Of
Hqname:	Not Reported	Address:	2326 FRESNO STREET
City:	FRESNO	State:	CA
Zip:	93721	Zip ext:	2988
Pop serv:	390350	Connection:	99005
Area serve:	CITY OF FRESNO		

K43
SW
1/2 - 1 Mile
Lower

FED USGS USGS40000176734

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	014S021E18M002M	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Central Valley aquifer system	Aquifer Type:	Not Reported
Formation Type:	Not Reported	Well Depth:	550
Construction Date:	19941108	Well Hole Depth:	570
Well Depth Units:	ft		
Well Hole Depth Units:	ft		

**K44
SW
1/2 - 1 Mile
Lower**

CA WELLS CAUSGSN00015981

Well ID:	USGS-364239119440901	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-364239119440901	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-364239119440901&store_num=		
GeoTracker Data:	Not Reported		

**K45
SW
1/2 - 1 Mile
Lower**

CA WELLS CAUSGS000000407

Well ID:	KINGFP-03	Well Type:	MUNICIPAL
Source:	United States Geological Survey		
Other Name:	KINGFP-03	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGS&samp_date=&global_id=&assigned_name=KINGFP-03&store_num=		
GeoTracker Data:	Not Reported		

**K46
SW
1/2 - 1 Mile
Lower**

CA WELLS CADDW0000001090

Well ID:	1010007-346	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 183 - RAW	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-346&store_num=		
GeoTracker Data:	Not Reported		

**47
NW
1/2 - 1 Mile
Higher**

CA WELLS CADDW0000005607

Well ID:	1000357-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 02 - INACTIVE	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1000357-001&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
93725	21	1

Federal EPA Radon Zone for FRESNO County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level \geq 2 pCi/L and \leq 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 93725

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.400 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: Department of Fish and Wildlife

Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program

State Water Resources Control Board

Telephone: 916-341-5577

The GAMA Program is California's comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Health Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database

Source: Department of Water Resources

Telephone: 916-651-9648

California Drinking Water Quality Database

Source: Department of Public Health

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations

Source: Dept of Conservation, Geologic Energy Management Division

Telephone: 916-323-1779

Oil and Gas well locations in the state.

California Earthquake Fault Lines

Source: California Division of Mines and Geology

The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon

Source: Department of Public Health

Telephone: 916-210-8558

Radon Database for California

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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AERIAL PHOTOGRAPHS



Ohanesian Estates

2122 S Peach Ave

Fresno, CA 93725

Inquiry Number: 6356858.8

February 04, 2021

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

02/04/21

Site Name:

Ohanesian Estates
2122 S Peach Ave
Fresno, CA 93725
EDR Inquiry # 6356858.8

Client Name:

RMA Geoscience
9854 Glenoaks Blvd
Sun Valley, CA 91352
Contact: Megan Stewart



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1998	1"=500'	Acquisition Date: January 01, 1998	USGS/DOQQ
1987	1"=500'	Flight Date: June 17, 1987	USDA
1984	1"=500'	Flight Date: June 09, 1984	USDA
1979	1"=500'	Flight Date: September 04, 1979	USDA
1973	1"=500'	Flight Date: May 08, 1973	USDA
1967	1"=500'	Flight Date: May 02, 1967	USDA
1962	1"=500'	Flight Date: August 09, 1962	USGS
1957	1"=500'	Flight Date: August 09, 1957	USDA
1950	1"=500'	Flight Date: January 31, 1950	USDA
1946	1"=500'	Flight Date: April 22, 1946	USGS
1937	1"=500'	Flight Date: November 04, 1937	USDA

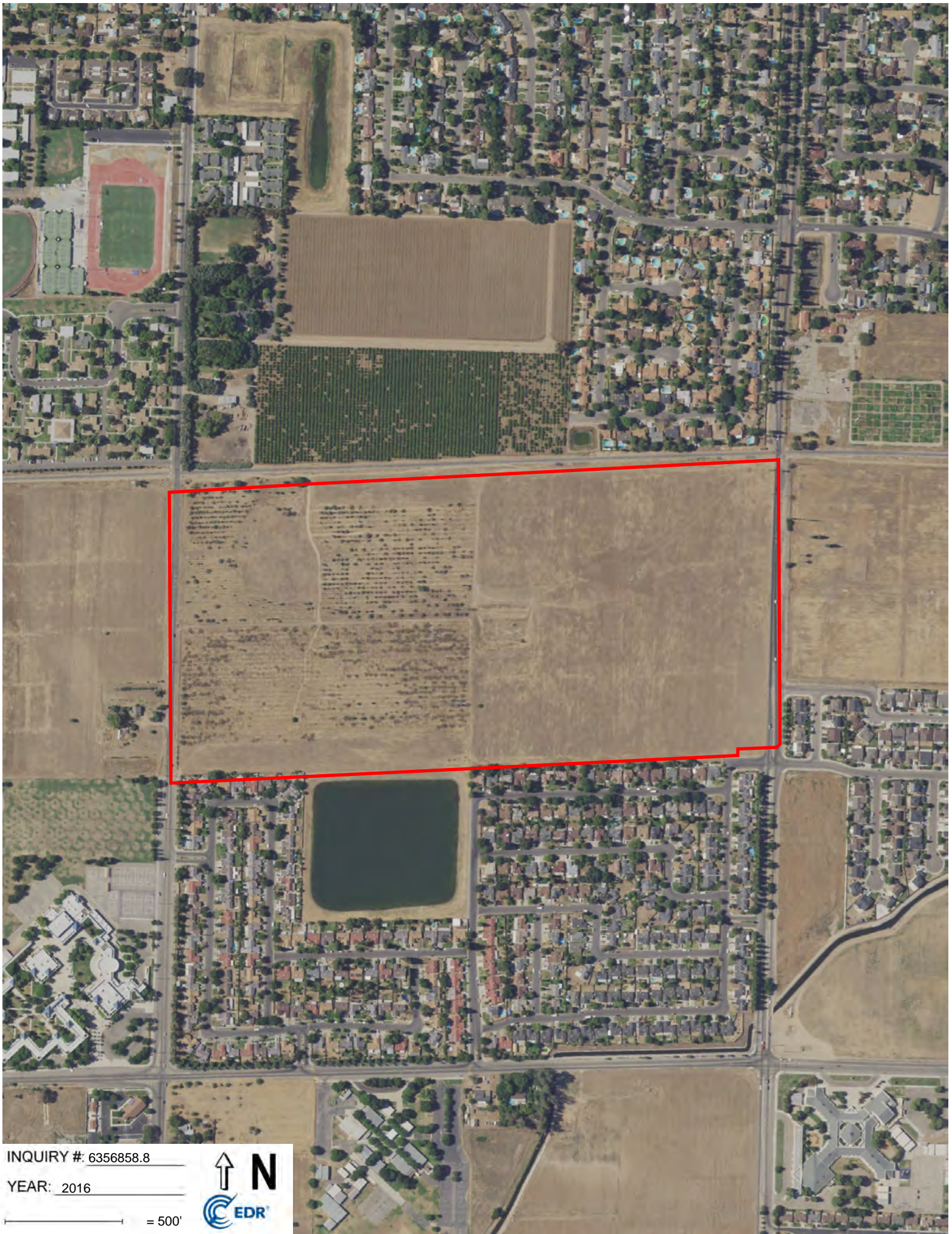
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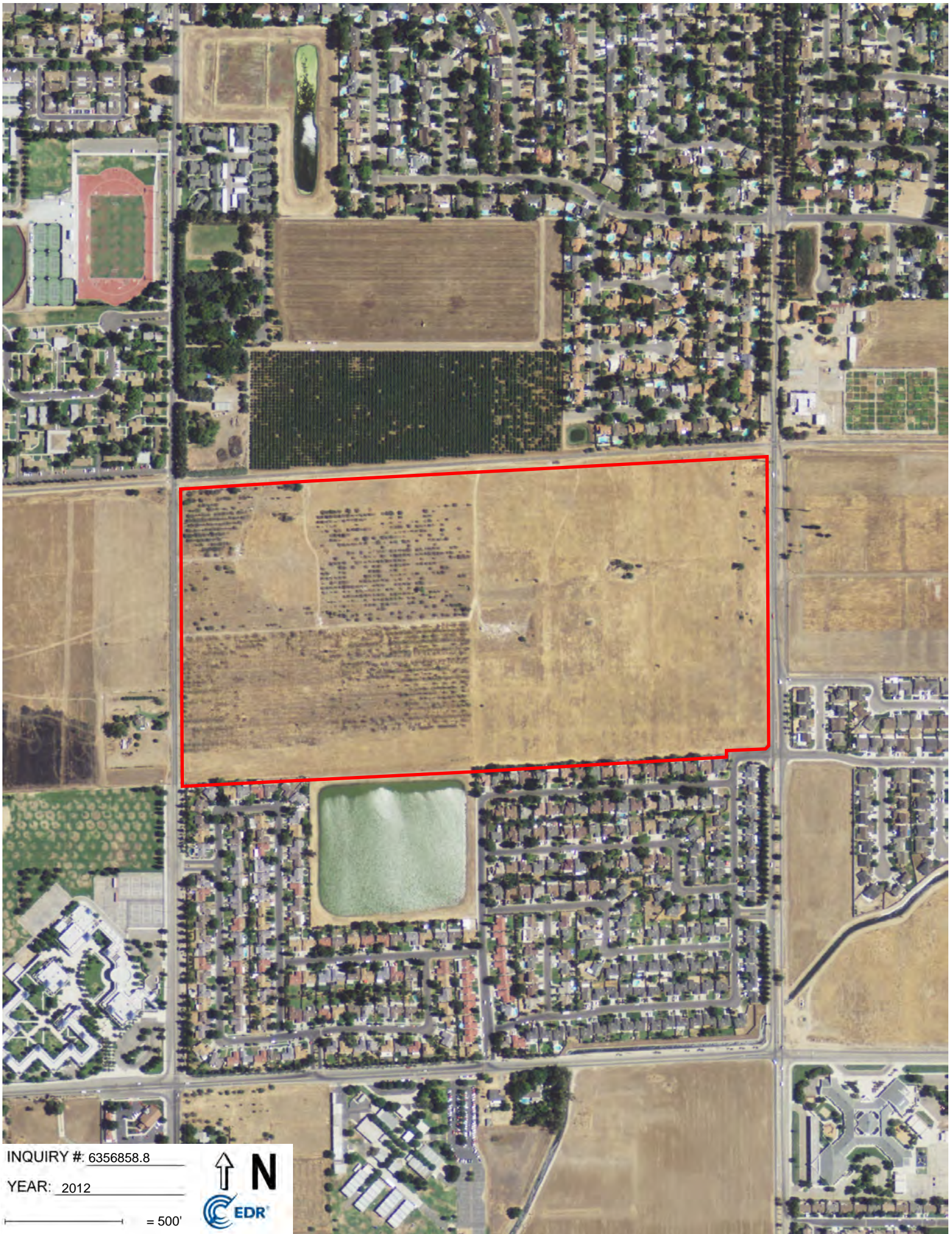


INQUIRY #: 6356858.8

YEAR: 2016

— = 500'



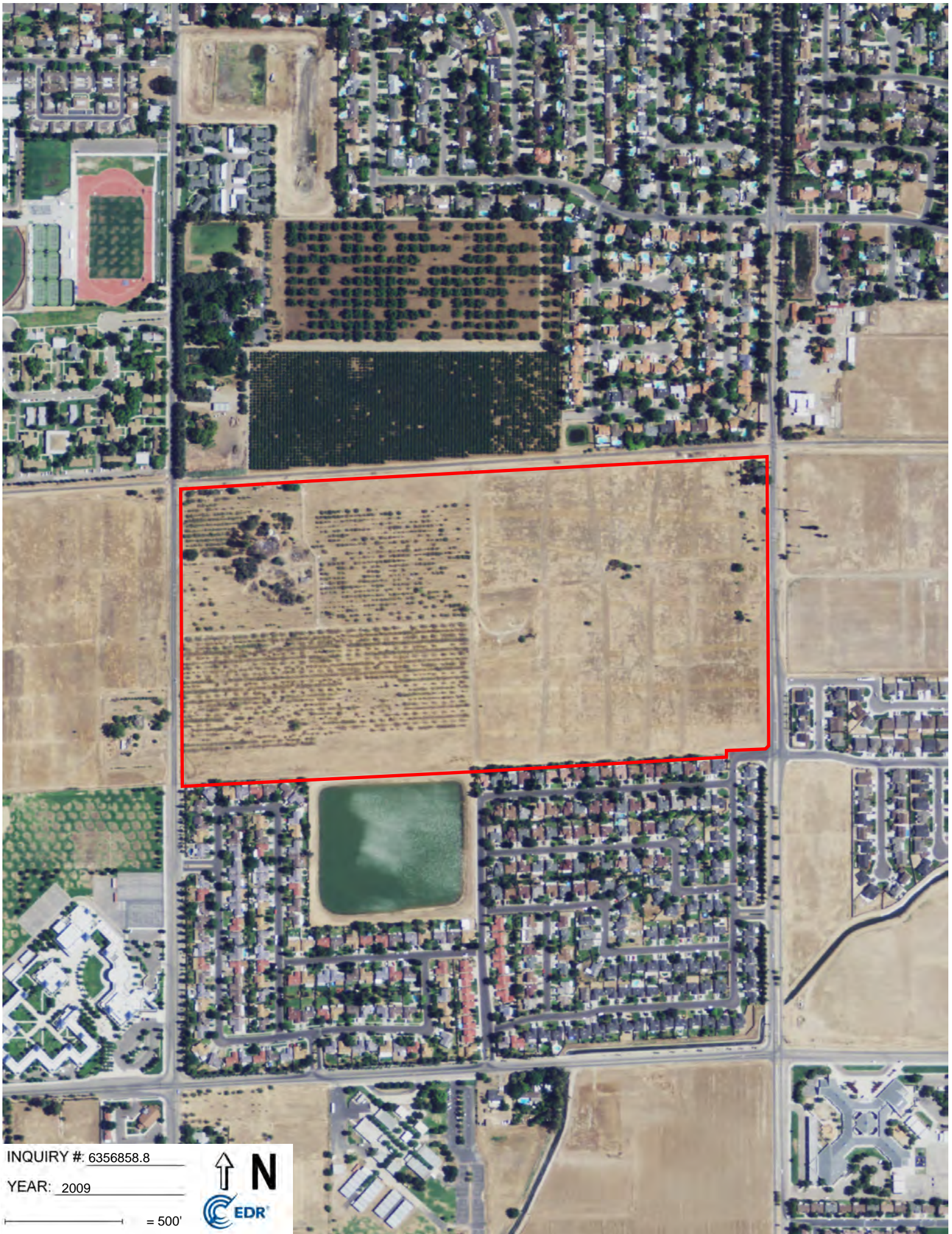


INQUIRY #: 6356858.8

YEAR: 2012

— = 500'



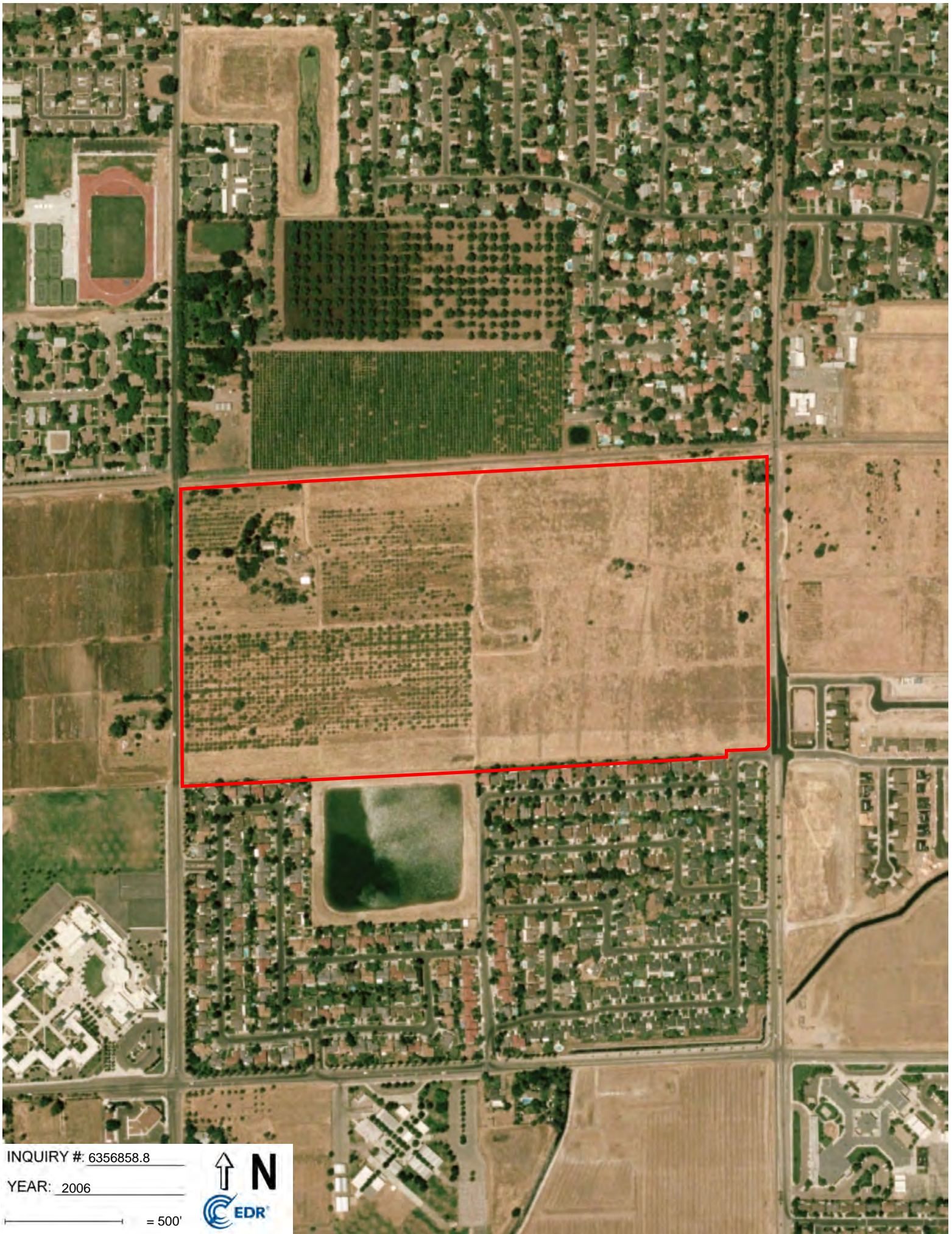


INQUIRY #: 6356858.8

YEAR: 2009

— = 500'





INQUIRY #: 6356858.8

YEAR: 2006

— = 500'





INQUIRY #: 6356858.8

YEAR: 1998

— = 500'



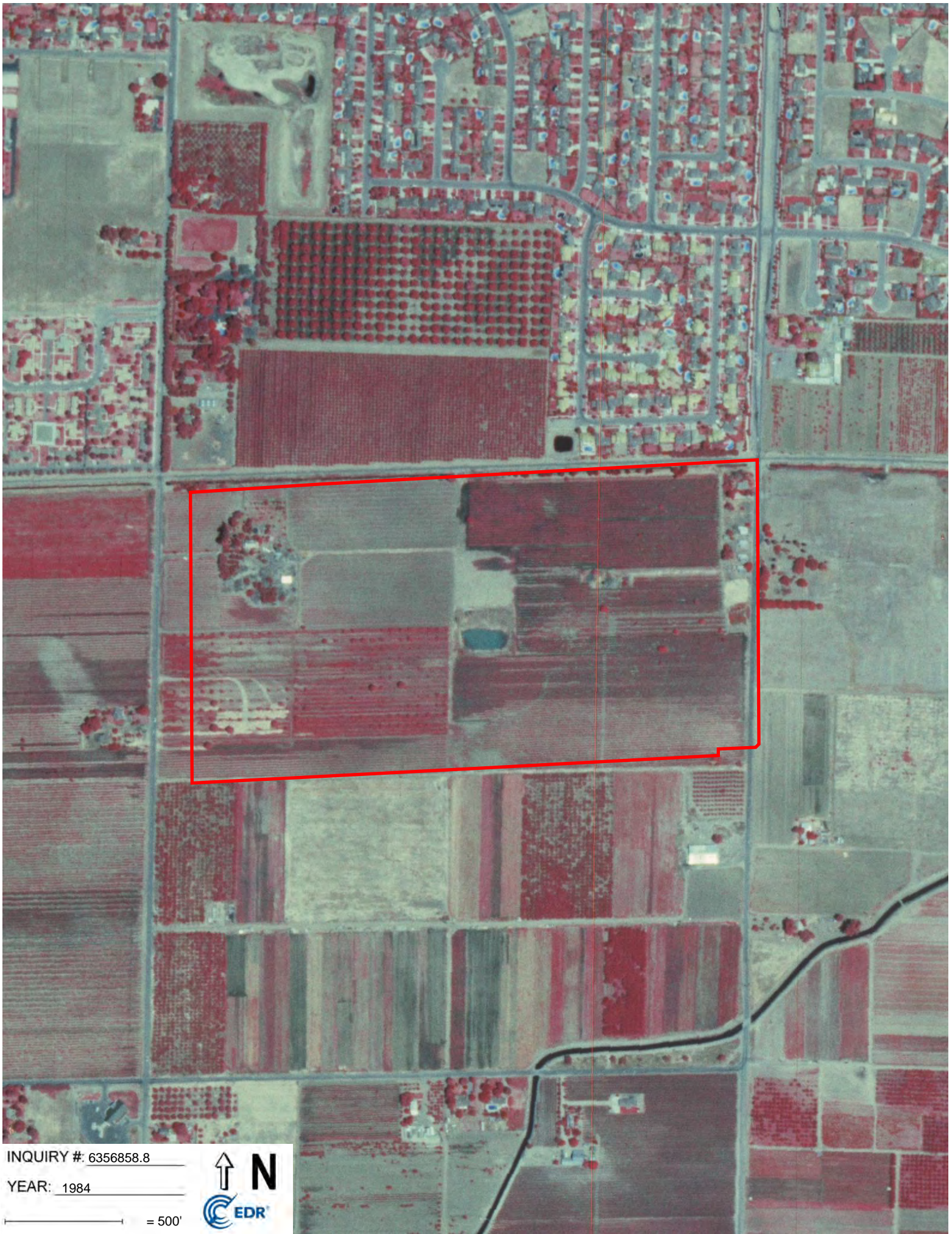


INQUIRY #: 6356858.8

YEAR: 1987

— = 500'



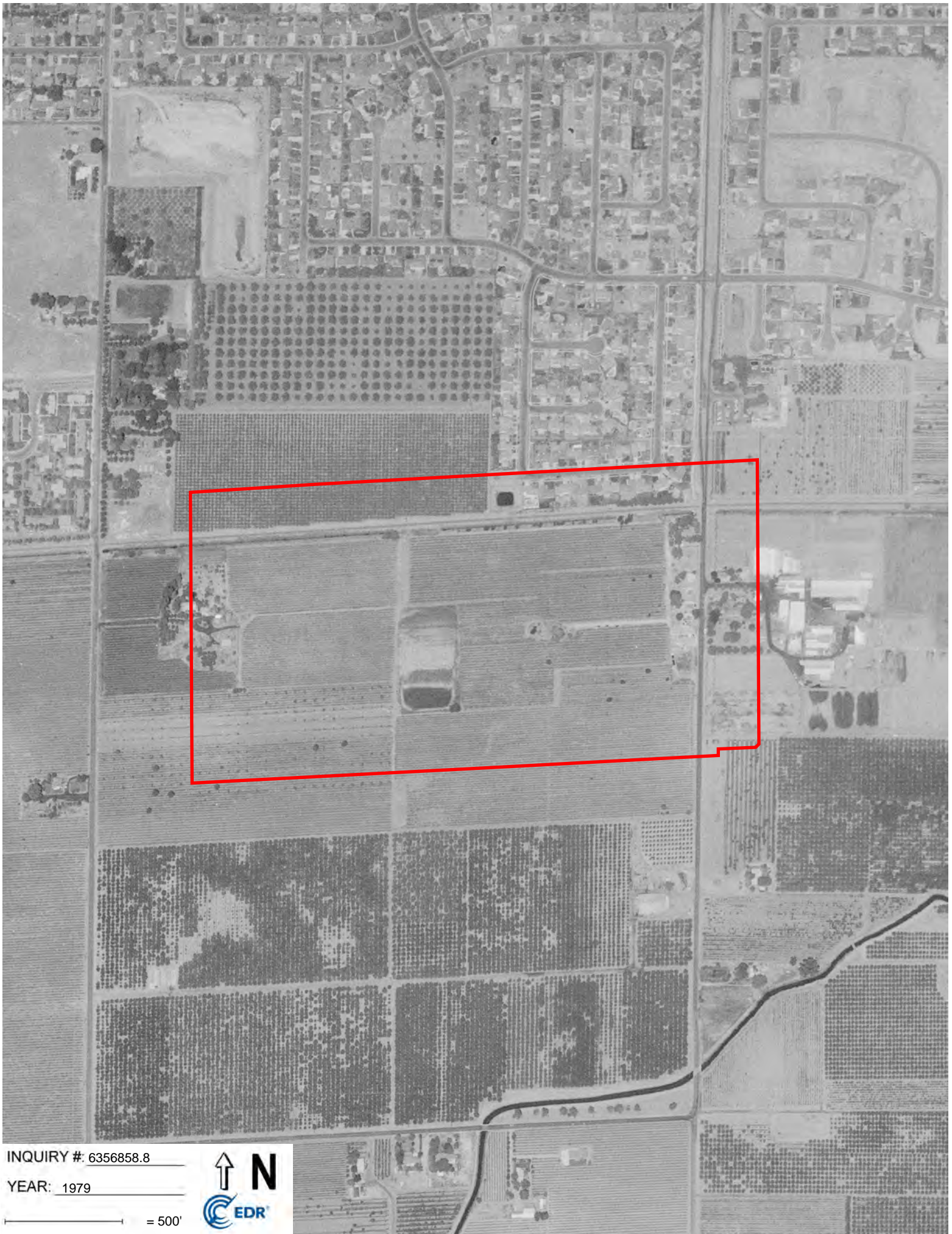


INQUIRY #: 6356858.8

YEAR: 1984

— = 500'



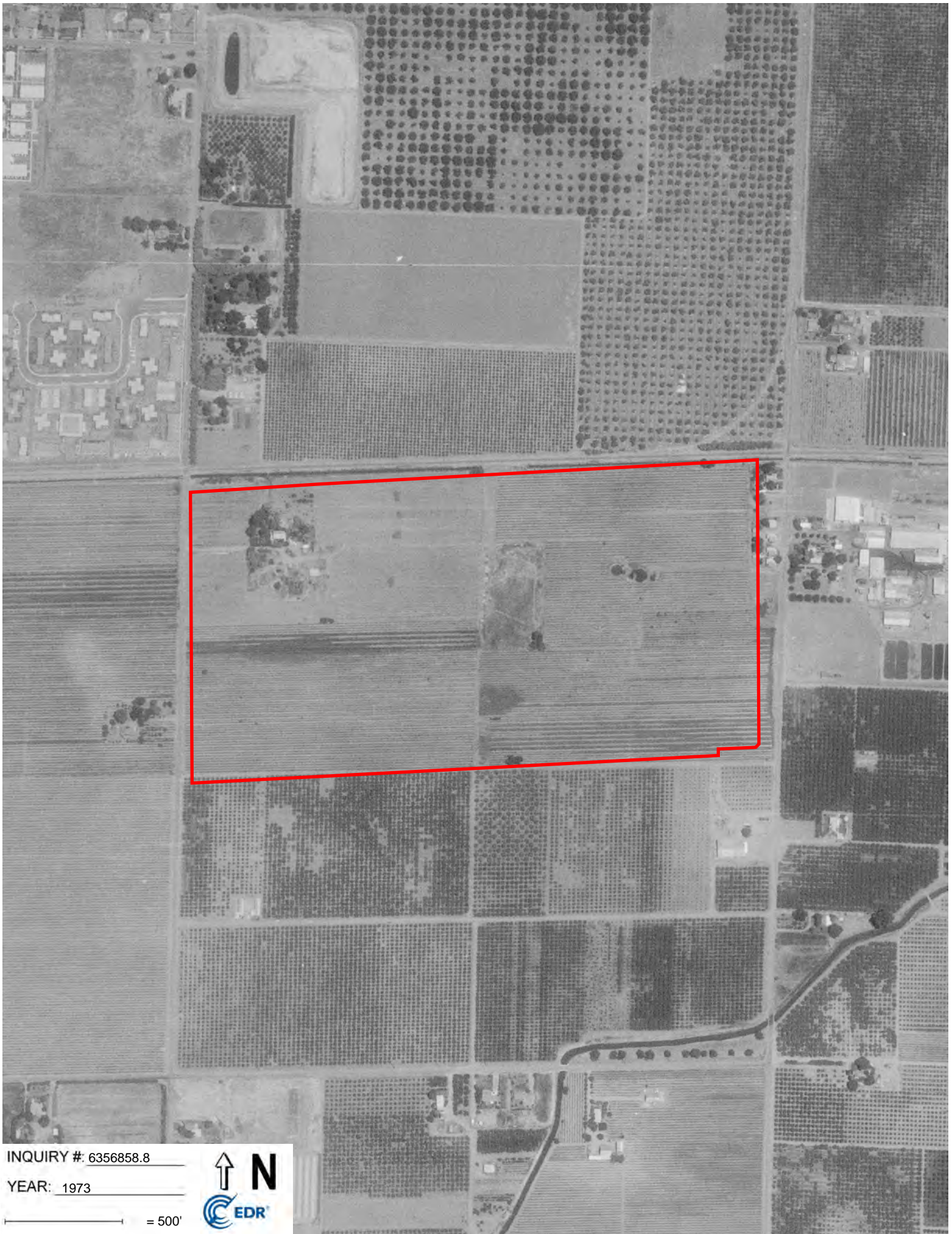


INQUIRY #: 6356858.8

YEAR: 1979

— = 500'





INQUIRY #: 6356858.8

YEAR: 1973

— = 500'



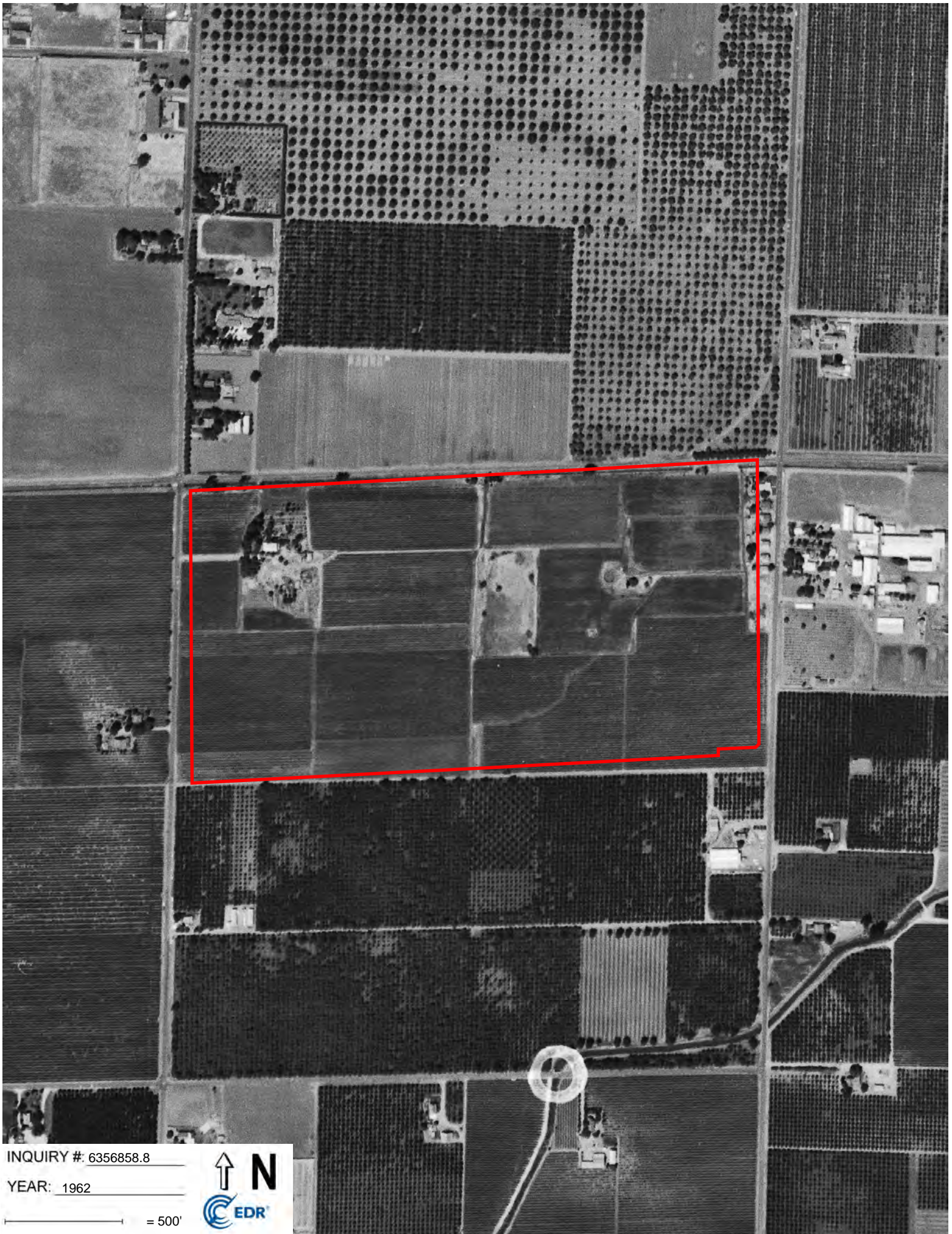


INQUIRY #: 6356858.8

YEAR: 1967

— = 500'



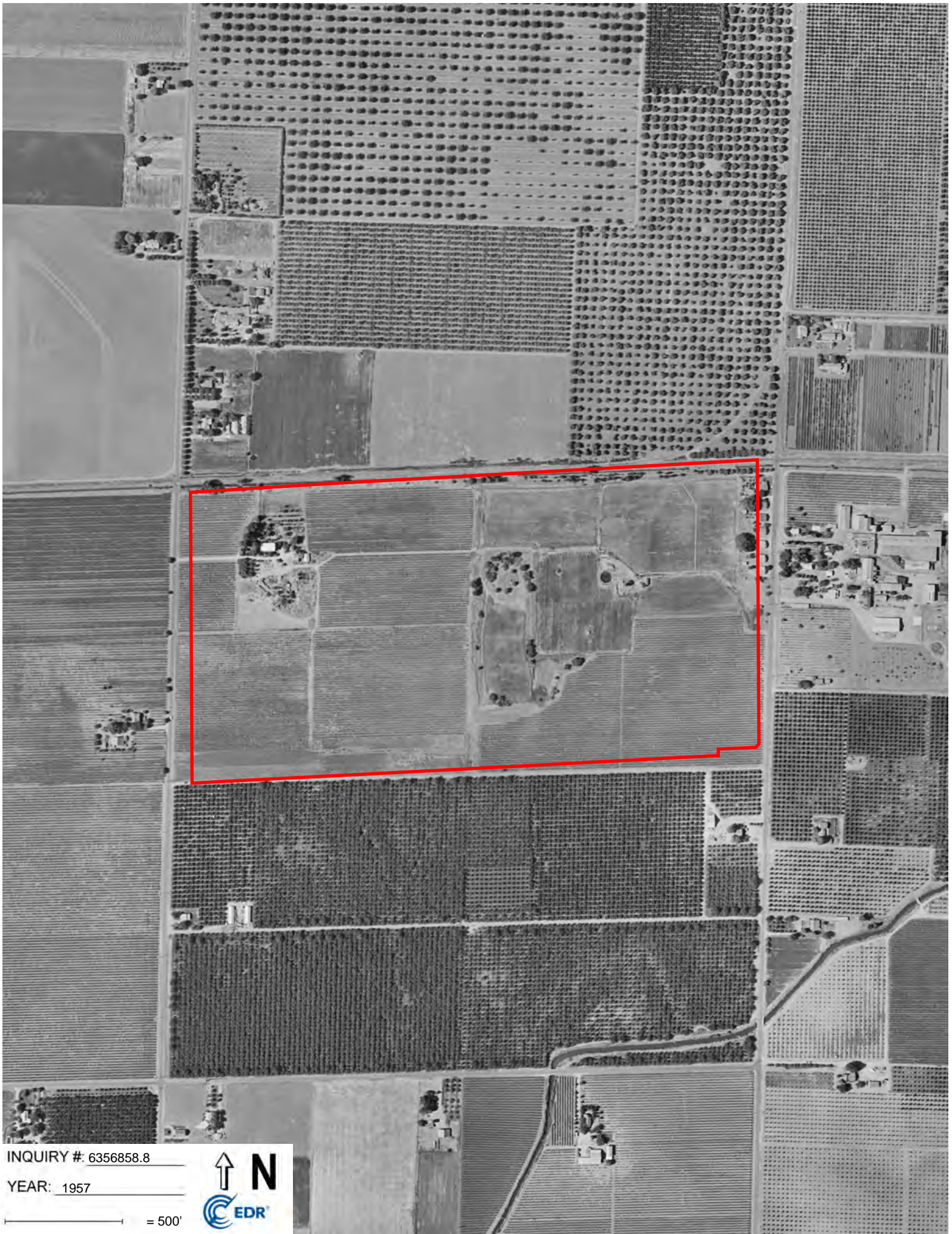


INQUIRY #: 6356858.8

YEAR: 1962

— = 500'





INQUIRY #: 6356858.8

YEAR: 1957

— = 500'





INQUIRY #: 6356858.8

YEAR: 1950

— = 500'



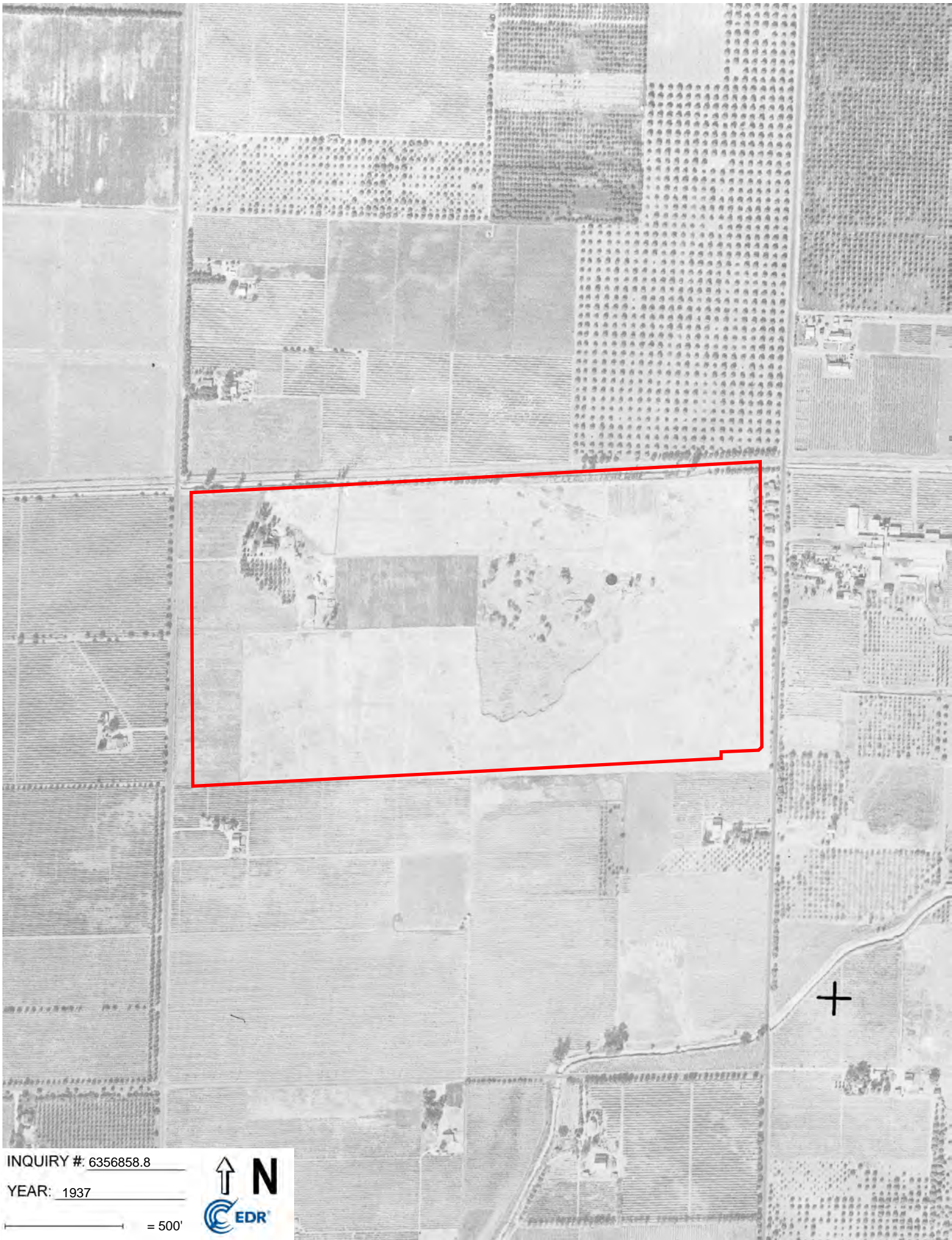


INQUIRY #: 6356858.8

YEAR: 1946

— = 500'





INQUIRY #: 6356858.8

YEAR: 1937

— = 500'





TOPOGRAPHIC MAPS



Ohanesian Estates

2122 S Peach Ave

Fresno, CA 93725

Inquiry Number: 6356858.4

February 04, 2021

EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

02/04/21

Site Name:

Ohanesian Estates
2122 S Peach Ave
Fresno, CA 93725
EDR Inquiry # 6356858.4

Client Name:

RMA Geoscience
9854 Glenoaks Blvd
Sun Valley, CA 91352
Contact: Megan Stewart



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by RMA Geoscience were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:**Coordinates:**

P.O.#	21G-0040-1-01	Latitude:	36.720303 36° 43' 13" North
Project:	Ohanesian Estates - Phase 1 E	Longitude:	-119.722987 -119° 43' 23" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	256808.47
		UTM Y Meters:	4067302.13
		Elevation:	307.00' above sea level

Maps Provided:

2012
1981
1972
1964
1948
1947
1946
1923

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



Fresno South
2012
7.5-minute, 24000



Malaga
2012
7.5-minute, 24000

1981 Source Sheets



Malaga
1981
7.5-minute, 24000
Aerial Photo Revised 1978

1972 Source Sheets



Malaga
1972
7.5-minute, 24000
Aerial Photo Revised 1972

1964 Source Sheets



Malaga
1964
7.5-minute, 24000
Aerial Photo Revised 1962

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1948 Source Sheets



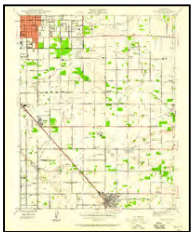
MALAGA
1948
7.5-minute, 25000

1947 Source Sheets



Malaga
1947
7.5-minute, 24000

1946 Source Sheets

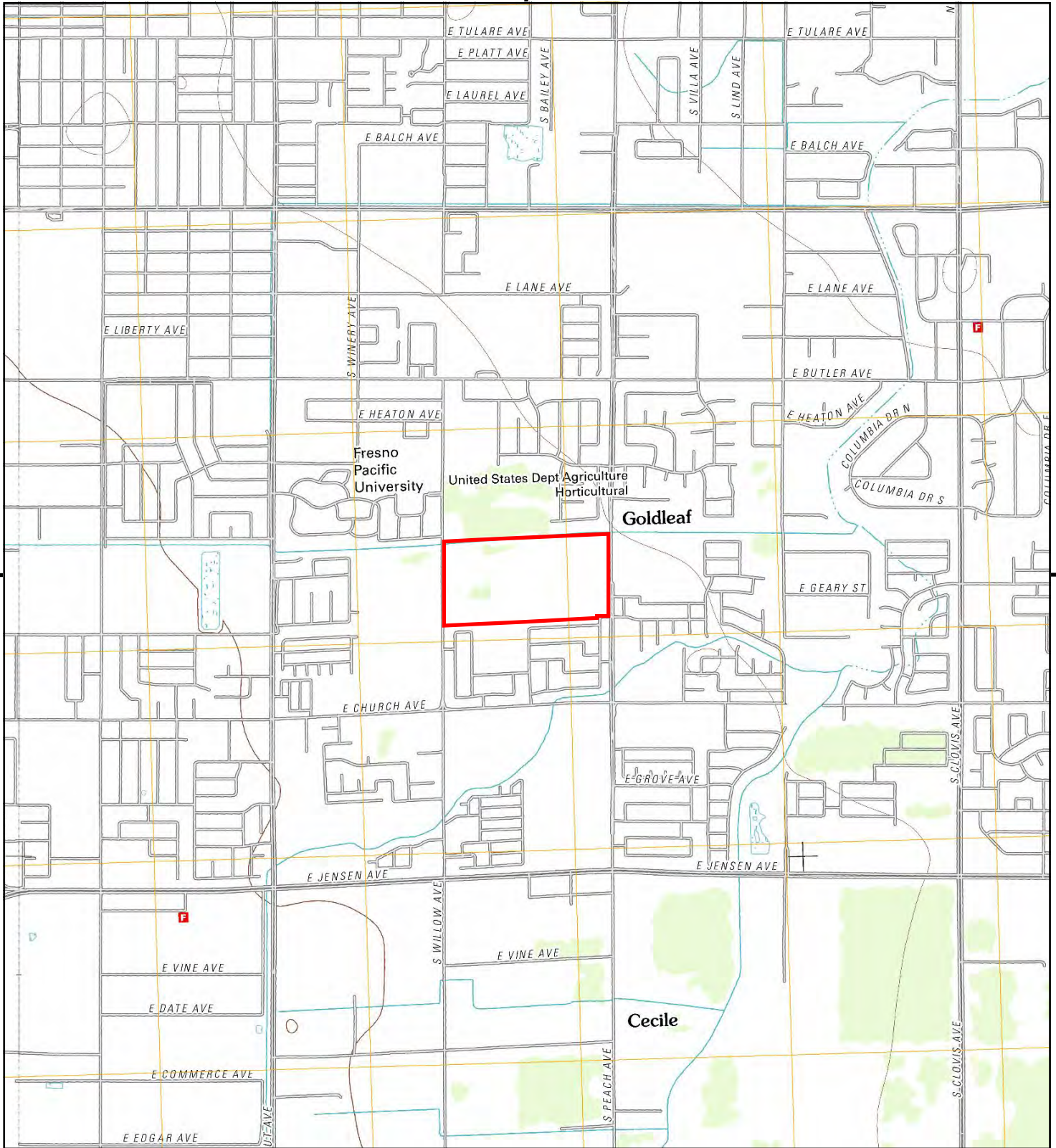


Malaga
1946
7.5-minute, 24000

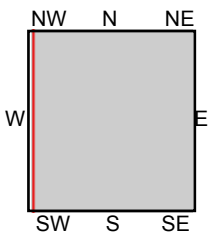
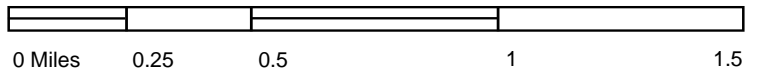
1923 Source Sheets



Malaga
1923
7.5-minute, 31680



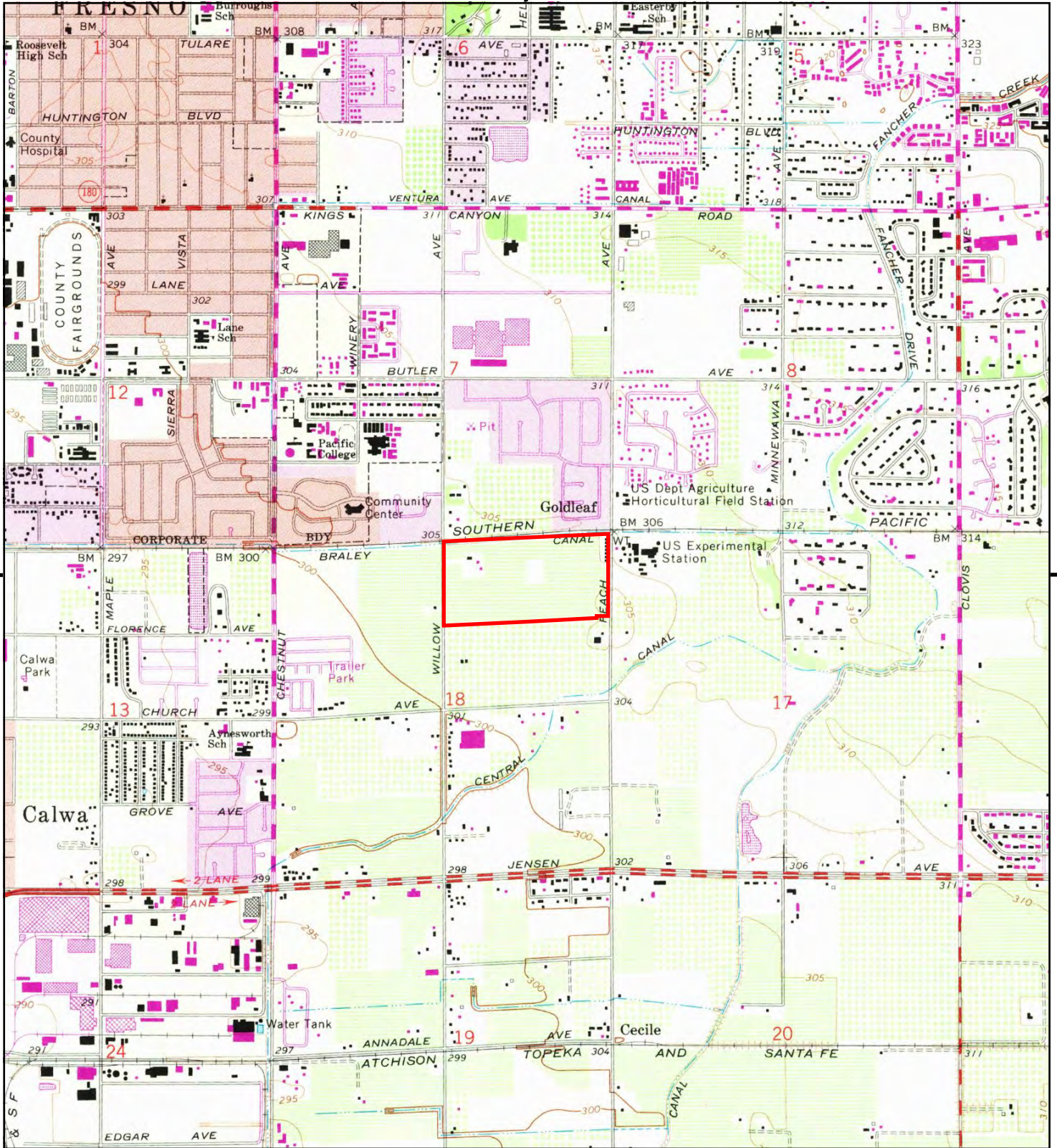
This report includes information from the following map sheet(s).



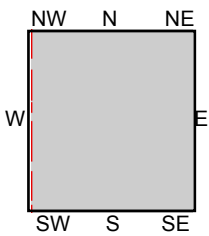
TP, Malaga, 2012, 7.5-minute
 SW, Fresno South, 2012, 7.5-minute

SITE NAME: Ohanesian Estates
 ADDRESS: 2122 S Peach Ave
 Fresno, CA 93725
 CLIENT: RMA Geoscience





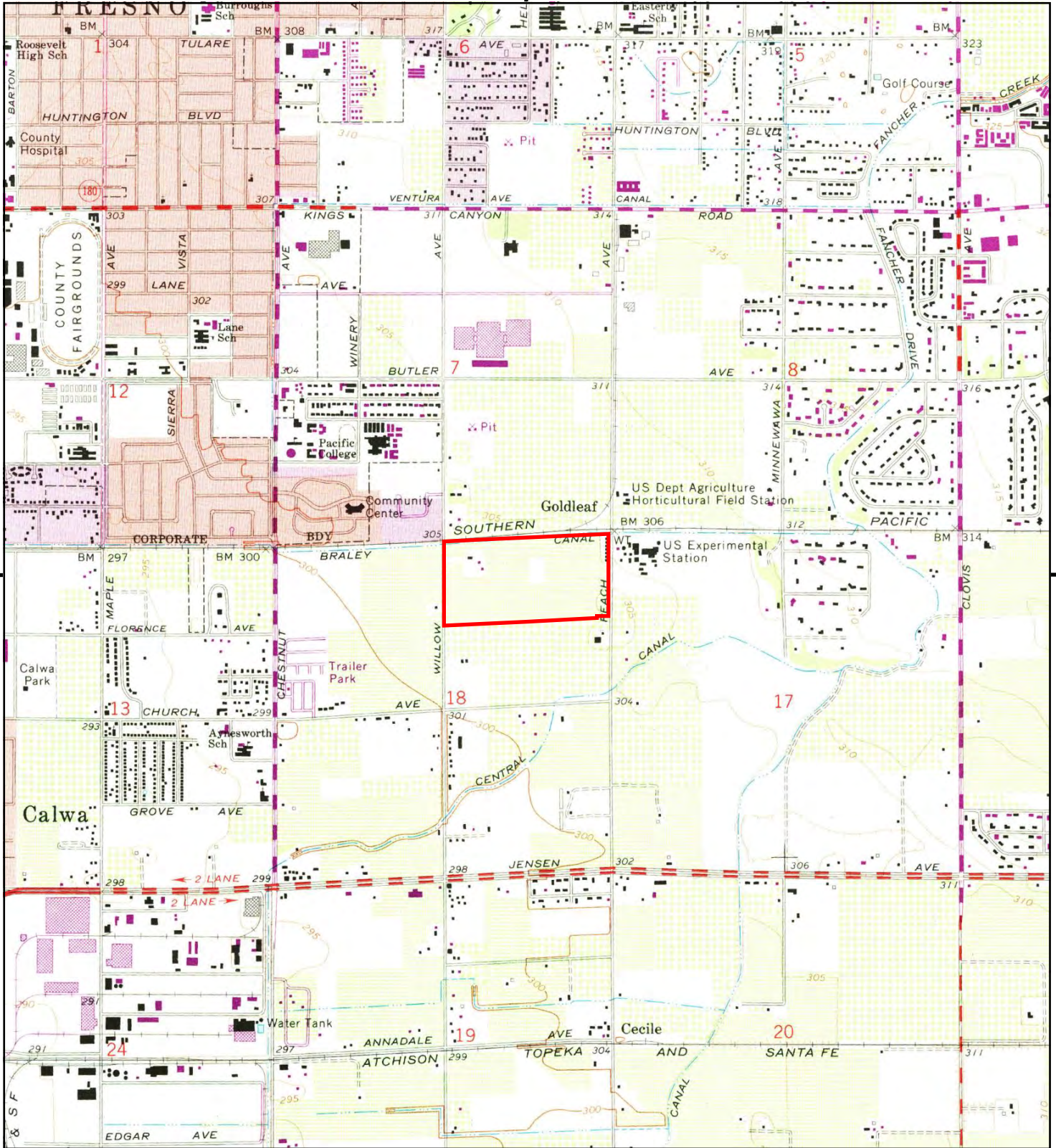
This report includes information from the following map sheet(s).



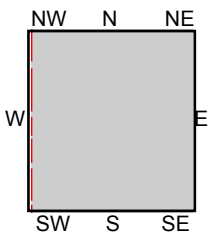
TP, Malaga, 1981, 7.5-minute

SITE NAME: Ohanesian Estates
 ADDRESS: 2122 S Peach Ave
 Fresno, CA 93725
 CLIENT: RMA Geoscience





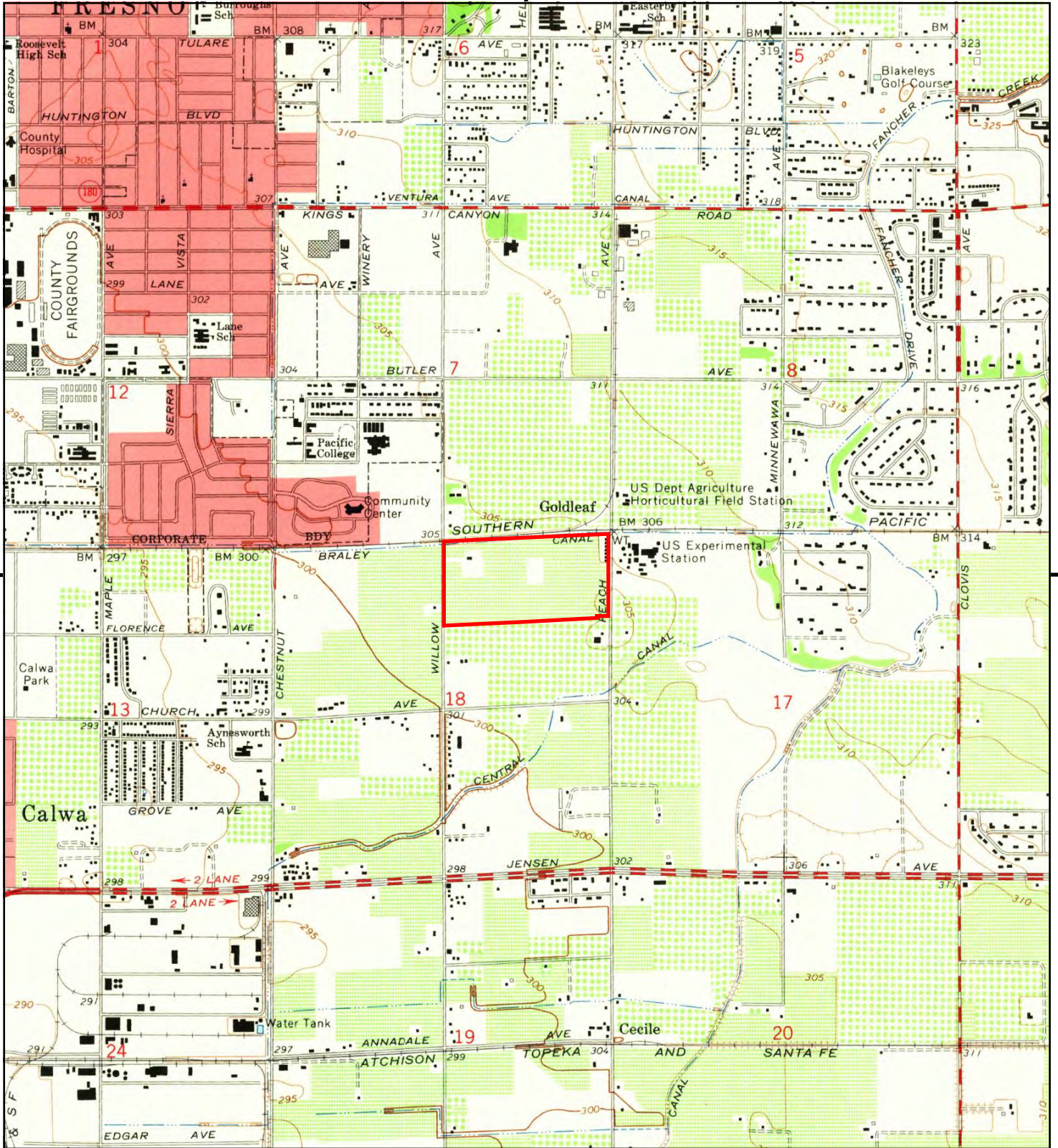
This report includes information from the following map sheet(s).



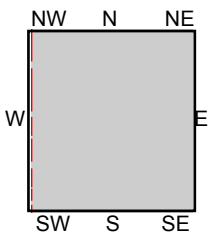
TP, Malaga, 1972, 7.5-minute

SITE NAME: Ohanesian Estates
 ADDRESS: 2122 S Peach Ave
 Fresno, CA 93725
 CLIENT: RMA Geoscience





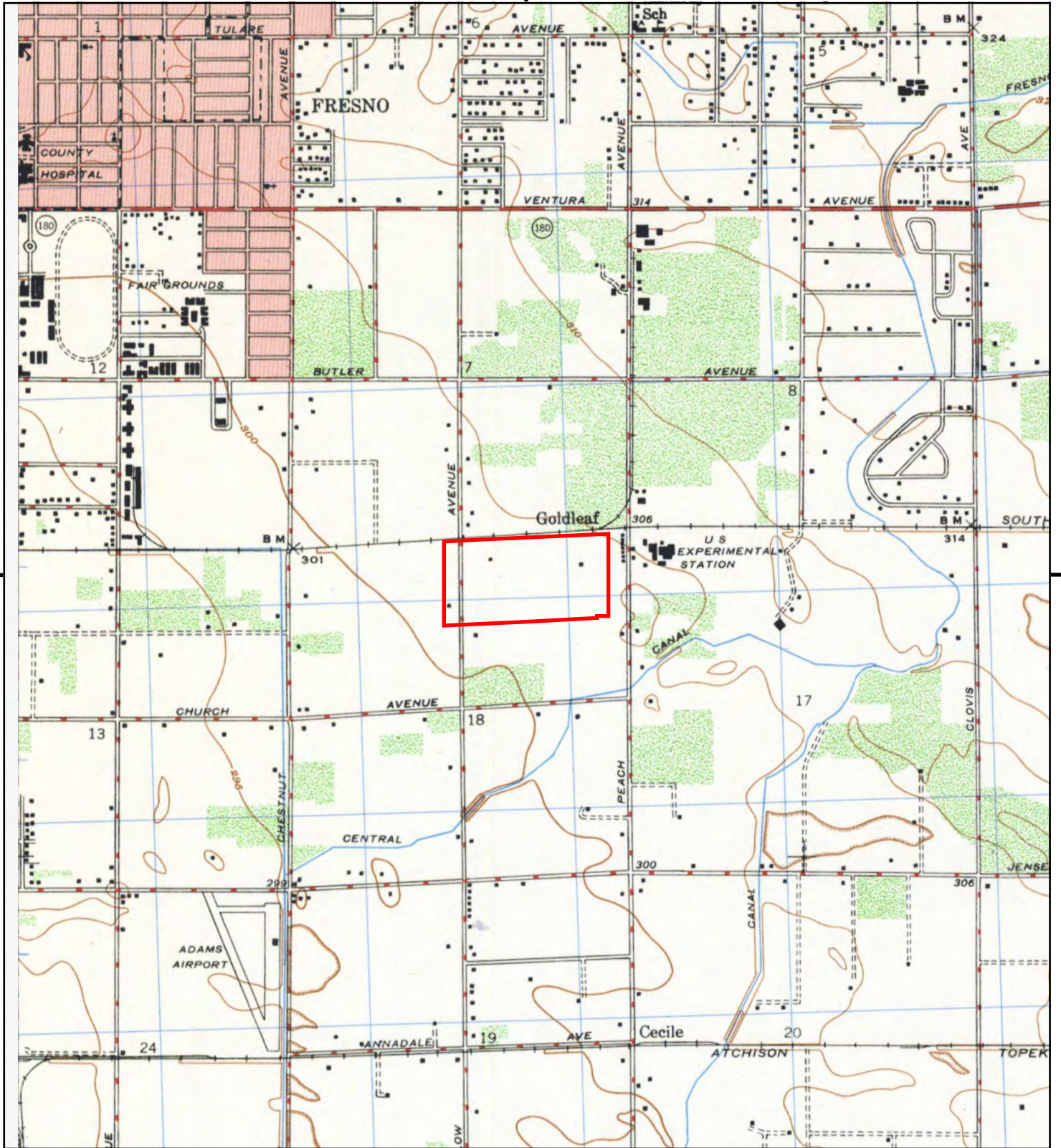
This report includes information from the following map sheet(s).



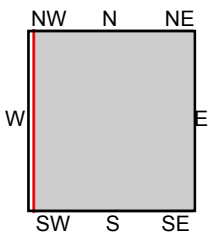
TP, Malaga, 1964, 7.5-minute

SITE NAME: Ohanesian Estates
 ADDRESS: 2122 S Peach Ave
 Fresno, CA 93725
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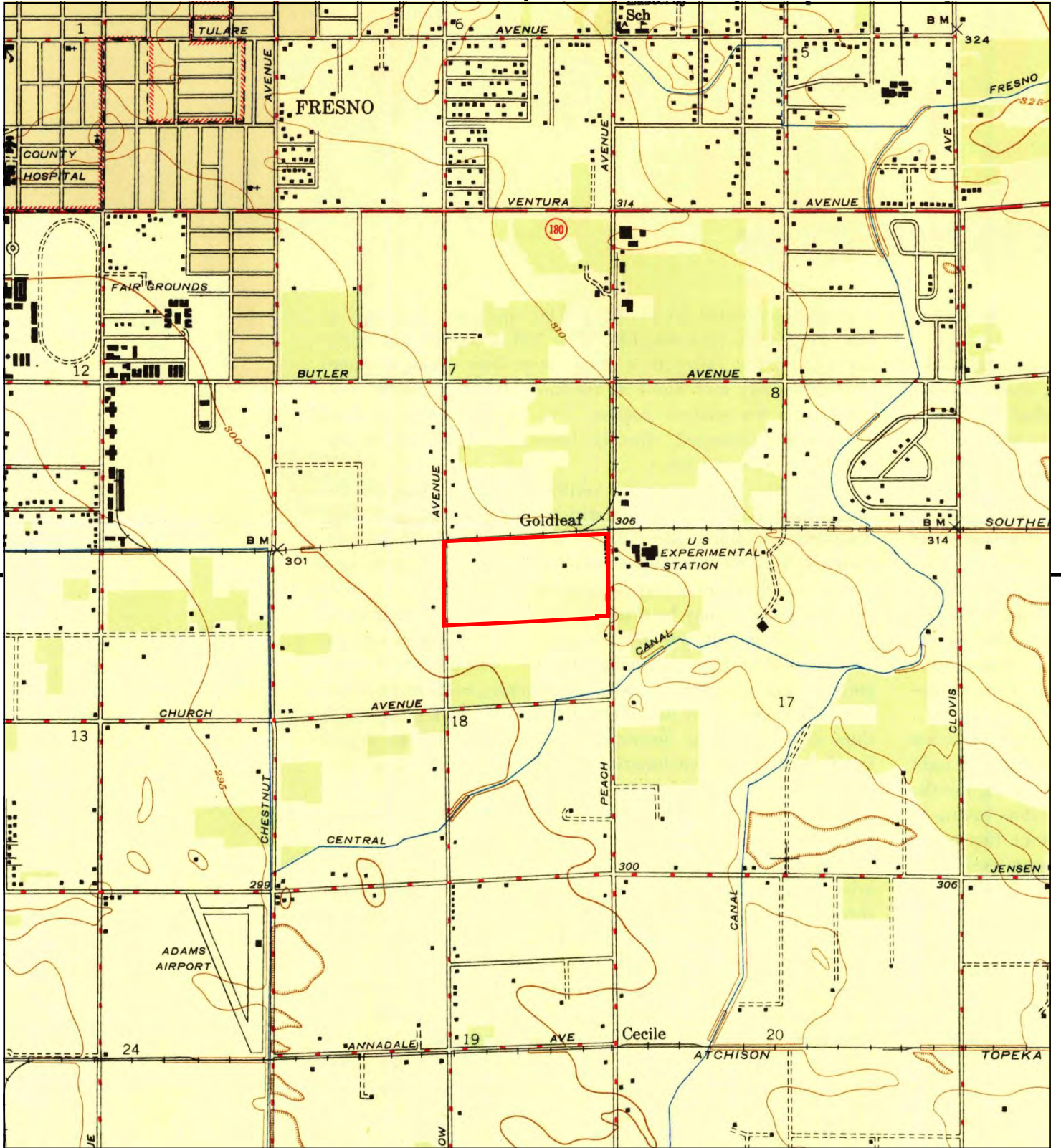
This report includes information from the following map sheet(s).



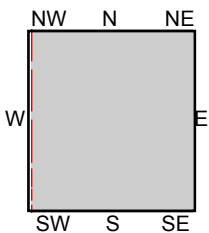
TP, MALAGA, 1948, 7.5-minute

SITE NAME: Ohanesian Estates
 ADDRESS: 2122 S Peach Ave
 Fresno, CA 93725
 CLIENT: RMA Geoscience





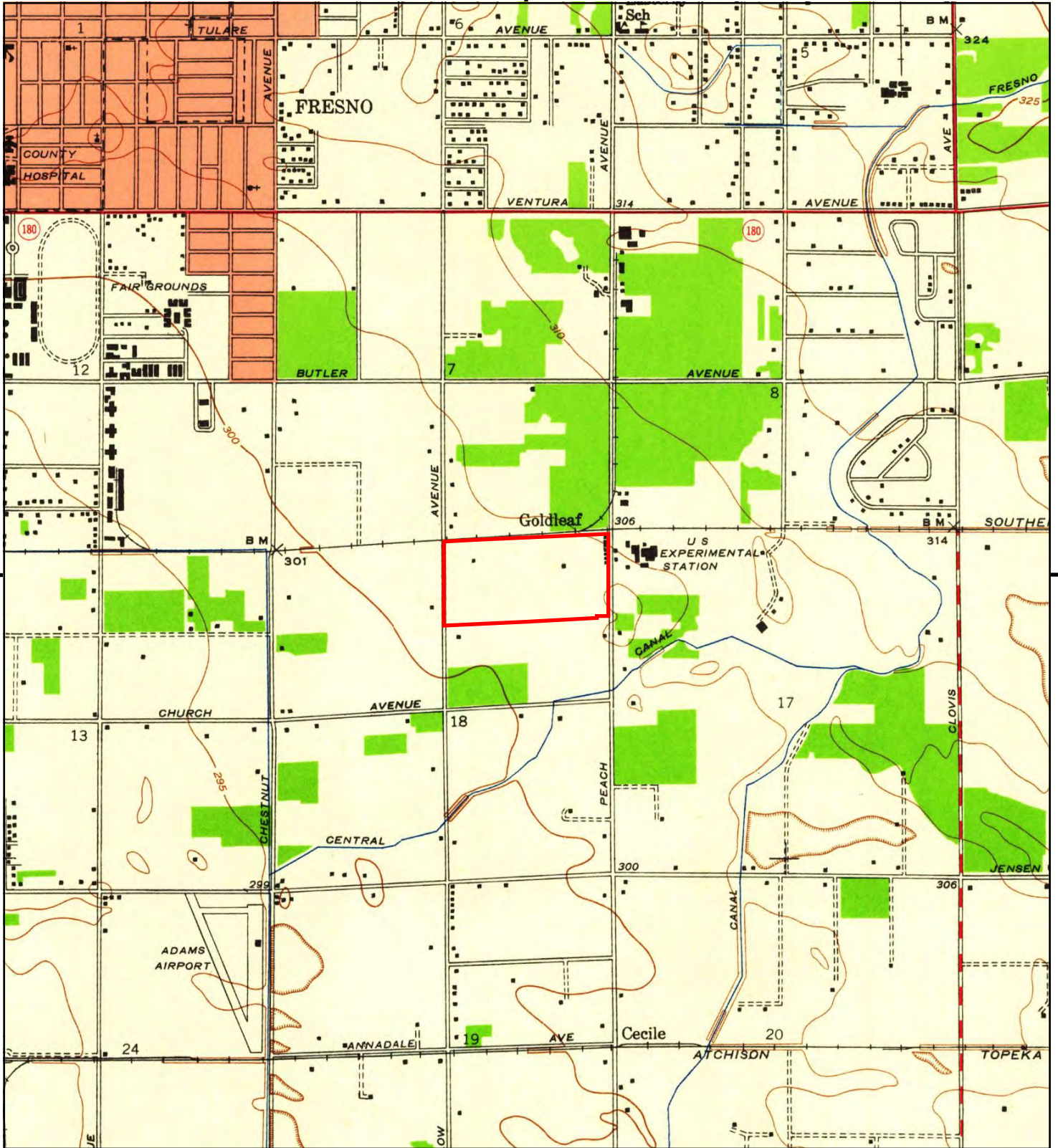
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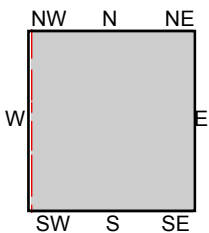
TP, Malaga, 1947, 7.5-minute

SITE NAME: Ohanesian Estates
 ADDRESS: 2122 S Peach Ave
 Fresno, CA 93725
 CLIENT: RMA Geoscience





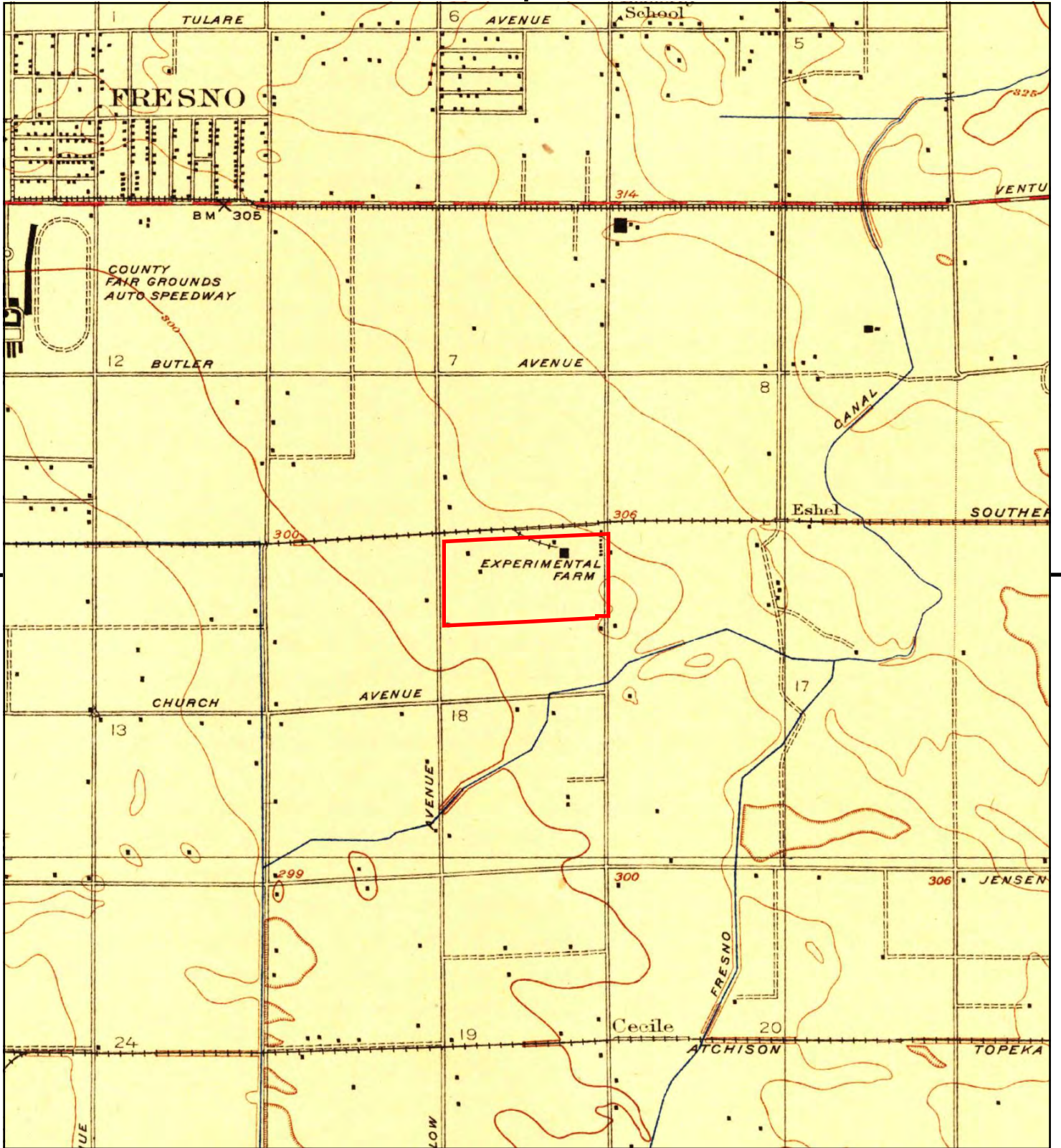
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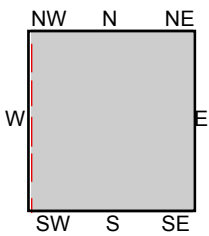
TP, Malaga, 1946, 7.5-minute

SITE NAME: Ohanesian Estates
 ADDRESS: 2122 S Peach Ave
 Fresno, CA 93725
 CLIENT: RMA Geoscience





This report includes information from the following map sheet(s).



TP, Malaga, 1923, 7.5-minute

SITE NAME: Ohanesian Estates
 ADDRESS: 2122 S Peach Ave
 Fresno, CA 93725
 CLIENT: RMA Geoscience





SANBORN REPORT



Ohanesian Estates

2122 S Peach Ave

Fresno, CA 93725

Inquiry Number: 6356858.3

February 04, 2021

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

02/04/21

Site Name:

Ohanesian Estates
2122 S Peach Ave
Fresno, CA 93725
EDR Inquiry # 6356858.3

Client Name:

RMA Geoscience
9854 Glenoaks Blvd
Sun Valley, CA 91352
Contact: Megan Stewart



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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # ED21-4327-B2EF
PO # 21G-0040-1-01
Project Ohanesian Estates - Phase 1 ES

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: ED21-4327-B2EF

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- Library of Congress
- University Publications of America
- EDR Private Collection

The Sanborn Library LLC Since 1866™

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CITY DIRECTORY

Ohanesian Estates

2122 S Peach Ave
Fresno, CA 93725

Inquiry Number: 6356858.5
February 05, 2021

The EDR-City Directory Abstract

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1922 through 2017. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by

infoUSA[®]

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RESEARCH SUMMARY

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<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2017	Cole Information Services	-	X	X	-
2014	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2009	Cole Information Services	-	X	X	-
2004	Cole Information Services	-	X	X	-
2002	R.L. Polk & Co Publishers	X	X	X	-
1999	Cole Information Services	-	X	X	-
1996	R.L. Polk & Co Publishers	X	X	X	-
1994	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
1990	R.L. Polk & Co Publishers	X	X	X	-
1986	R.L. Polk & Co Publishers	X	X	X	-

EXECUTIVE SUMMARY

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
1980	R.L. Polk & Co Publishers	X	X	X	-
1975	R.L. Polk & Co Publishers	X	X	X	-
1970	R.L. Polk & Co Publisher	X	X	X	-
1965	R.L. Polk & Co Publisher	X	X	X	-
1962	Pacific Telephone	X	X	X	-
1958	R.L. Polk & Co Publishers	-	X	X	-
1952	R.L. Polk & Co Publishers	-	-	-	-
1947	R.L. Polk & Co Publishers	-	-	-	-
1942	R.L. Polk & Co Publishers	-	-	-	-
1937	R.L. Polk & Co Publishers	-	-	-	-
1932	R.L. Polk & Co Publishers	-	-	-	-
1927	R.L. Polk & Co Publishers	-	-	-	-
1922	Polk: Husted Directory Co.	-	-	-	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

<u>Address</u>	<u>Type</u>	<u>Findings</u>
2121 S Willow Ave	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

2122 S Peach Ave
Fresno, CA 93725

FINDINGS DETAIL

Target Property research detail.

S WILLOW AVE

2121 S WILLOW AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	JOHN OHANESIAN	Cole Information Services
1994	OHANESIAN, JOHN	Cole Information Services

S Willow Ave

2121 S Willow Ave

<u>Year</u>	<u>Uses</u>	<u>Source</u>
-------------	-------------	---------------

willow

2121 willow

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	Ohanesian John S El+ A	R.L. Polk & Co Publishers
1996	Ohanesian John	R.L. Polk & Co Publishers
1990	Ohanesian John	R.L. Polk & Co Publishers
1986	Ohanesian John	R.L. Polk & Co Publishers
1980	Ohanesian John	R.L. Polk & Co Publishers
1975	Ohanesian John	R.L. Polk & Co Publishers
1970	Ohanesian John	R.L. Polk & Co Publisher
1965	OHANESIAN EL IZ MOS	R.L. Polk & Co Publisher
1962	Ohanesian John 0 CL	Pacific Telephone

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

E DWIGHT WAY

5152 E DWIGHT WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	SANTIAGO SOLTERO	Cole Information Services
2009	SANTIAGO SOLTERO	Cole Information Services
2004	SANTIAGO SOLTERO	Cole Information Services
2002	Soltero Santiago M & Mirta M+ a DRamirez Zulema	R.L. Polk & Co Publishers R.L. Polk & Co Publishers
1999	SANTIAGO SOLTERO	Cole Information Services
1986	Van Marter Robt	R.L. Polk & Co Publishers
1980	Liems Robt	R.L. Polk & Co Publishers

5155 E DWIGHT WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	MICHAEL LUDWIG	Cole Information Services
2014	MICHAEL LUDWIG	Cole Information Services
2009	MICHAEL LUDWIG	Cole Information Services
2004	ARLETA SIMPSON	Cole Information Services
2002	Haddox Arleta Y TINY WORLD DAY CARE child care serv Haddox Dorothy L	R.L. Polk & Co Publishers R.L. Polk & Co Publishers R.L. Polk & Co Publishers
1999	MICHAEL LUDWIG	Cole Information Services
1990	No Return	R.L. Polk & Co Publishers
1986	Smith Frank Jr	R.L. Polk & Co Publishers
1980	Smith Frank Jr	R.L. Polk & Co Publishers

5158 E DWIGHT WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	DEBBIE FLORES	Cole Information Services
2004	MARK PINTO	Cole Information Services
2002	DBobo Lanetta J	R.L. Polk & Co Publishers
1999	DEBBIE FLORES	Cole Information Services
1990	Robb Gerald	R.L. Polk & Co Publishers

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1986	Robb Gerald	R.L. Polk & Co Publishers
1980	Robb Gerald	R.L. Polk & Co Publishers

5161 E DWIGHT WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	DANIEL SOTO	Cole Information Services
2014	DANIEL SOTO	Cole Information Services
2009	ARTHUR SOTO	Cole Information Services
2004	ARTHUR SOTO	Cole Information Services
2002	Soto Danny 0 & Josefina	R.L. Polk & Co Publishers
1999	ARTHUR SOTO	Cole Information Services
1990	White Steph	R.L. Polk & Co Publishers
1986	White Steph T	R.L. Polk & Co Publishers
1980	White Steph T	R.L. Polk & Co Publishers

5164 E DWIGHT WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	CHARLES EMBREY	Cole Information Services
2014	CHARLES EMBREY	Cole Information Services
2009	LEE THOR	Cole Information Services
2004	BRENDA TUTTLE	Cole Information Services
2002	Sugimoto Yoshitaka Ei	R.L. Polk & Co Publishers
1999	LEE THOR	Cole Information Services
1990	Tuttle Brenda	R.L. Polk & Co Publishers
1986	Tuttle Brenda	R.L. Polk & Co Publishers
1980	Tuttle S	R.L. Polk & Co Publishers

5167 E DWIGHT WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	ANTONIO ESPINOSA	Cole Information Services
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	ANTONIO OVALLE	Cole Information Services
2004	ANTONIO OVALLE	Cole Information Services
2002	Ovalle Antonio C & Celina	R.L. Polk & Co Publishers
1999	ANTONIO OVALLE	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
1994	TOWERY, JOHN	Cole Information Services
1990	Towery John H	R.L. Polk & Co Publishers
1986	Towery John H	R.L. Polk & Co Publishers

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	Towery John	R.L. Polk & Co Publishers

5170 E DWIGHT WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	GARY SMITH	Cole Information Services
2014	ACKAISHA SMITH	Cole Information Services
2009	GARY SMITH	Cole Information Services
2002	Smith Gary L B 1+ d	R.L. Polk & Co Publishers
1999	GARY SMITH	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
1996	Smith Gary L	R.L. Polk & Co Publishers
1994	SMITH, GARY L	Cole Information Services
1990	Smith Gary L	R.L. Polk & Co Publishers
1986	Smith Gary L	R.L. Polk & Co Publishers
1980	Smith Gary L	R.L. Polk & Co Publishers

5173 E DWIGHT WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	JOSEPH GARCIA	Cole Information Services
2014	MANUEL CARDENAS	Cole Information Services
2009	KATHY FOSTER	Cole Information Services
2004	KATHY FOSTER	Cole Information Services
2002	Foster William E	R.L. Polk & Co Publishers
	Foster Katherine L E	R.L. Polk & Co Publishers
1999	KATHY FOSTER	Cole Information Services
1990	E DWIGHT WAY Could	R.L. Polk & Co Publishers
	No Return	R.L. Polk & Co Publishers
1986	Ory Timothy	R.L. Polk & Co Publishers
1980	Ory Timothy	R.L. Polk & Co Publishers

5176 E DWIGHT WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	JOSE PLASENCIA	Cole Information Services
2014	JOSE PLASENCIA	Cole Information Services
2009	JOSE PLASENCIA	Cole Information Services
2004	JOSE PLASENCIA	Cole Information Services
2002	Plasencia Angela V	R.L. Polk & Co Publishers
	Plasencia Jose V 16 A	R.L. Polk & Co Publishers
1999	OCCUPANT UNKNOWN	Cole Information Services

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	JOSE PLASENCIA	Cole Information Services
1990	Rowe Michl L	R.L. Polk & Co Publishers
1986	Rowe Michi L	R.L. Polk & Co Publishers
1980	Bullock Walt W	R.L. Polk & Co Publishers

5179 E DWIGHT WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	DANIELLE BLACK	Cole Information Services
2009	ALONZO ETHERIDGE	Cole Information Services
2004	ALONZO ETHERIDGE	Cole Information Services
2002	Etheridge Alonzo L & Robyn a	R.L. Polk & Co Publishers
1999	ALONZO ETHERIDGE	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
1996	Zailian J	R.L. Polk & Co Publishers
1994	ZAILIAN, JUNE	Cole Information Services
1990	Zailian June Mrs	R.L. Polk & Co Publishers
1986	Zailian Carl R	R.L. Polk & Co Publishers
1980	Zailian Carl R	R.L. Polk & Co Publishers

5182 E DWIGHT WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	TERREL FORTNER	Cole Information Services
2014	TERREL FORTNER	Cole Information Services
2009	TERREL FORTNER	Cole Information Services
2004	TERREL FORTNER	Cole Information Services
2002	Fortner Terrell A	R.L. Polk & Co Publishers
1999	TERREL FORTNER	Cole Information Services
1990	Fortoer Terrel	R.L. Polk & Co Publishers
1986	Fortner Steve	R.L. Polk & Co Publishers
1980	Fortner Steve	R.L. Polk & Co Publishers

5185 E DWIGHT WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	KERI SHEAFFER	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2004	LEESTHER DEFEHR	Cole Information Services
2002	Not Verified	R.L. Polk & Co Publishers
1990	No Return	R.L. Polk & Co Publishers
1986	Hawkins P	R.L. Polk & Co Publishers

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	Lumbert Robt	R.L. Polk & Co Publishers
	Lager Stan	R.L. Polk & Co Publishers

5188 E DWIGHT WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	TOMAS HERNANDEZ	Cole Information Services
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2004	MAMON & RUTH EVANGELIST	Cole Information Services
	MAMOM THOMAS	Cole Information Services
2002	Thomasrv Lorenzo J	R.L. Polk & Co Publishers
	Thomasrv Mamon L 5 S+ A s	R.L. Polk & Co Publishers
1996	Thomas Mamon	R.L. Polk & Co Publishers
1994	THOMAS, MAMON	Cole Information Services
1990	Gerling W Robt	R.L. Polk & Co Publishers
1986	Brown Glen D	R.L. Polk & Co Publishers
1980	k Rivera Chuck	R.L. Polk & Co Publishers

5191 E DWIGHT WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	SHANNON BARKER	Cole Information Services
2004	PAULA BARKER	Cole Information Services
2002	Shanyfelt Eileen G El	R.L. Polk & Co Publishers
1990	No Return	R.L. Polk & Co Publishers
1986	Bowman Irene Mrs	R.L. Polk & Co Publishers
1980	Bowman Jeffrey	R.L. Polk & Co Publishers

5192 E DWIGHT WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	LATISHA BALBOA	Cole Information Services
2009	YOUA VANG	Cole Information Services
2002	Romero Anthony M 1 A	R.L. Polk & Co Publishers
	Hayes Robert W 51+ A	R.L. Polk & Co Publishers
	Romero Marie G	R.L. Polk & Co Publishers
1999	YOUA VANG	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
1994	RAIGOSA, JOE	Cole Information Services
1990	Beechler Peter	R.L. Polk & Co Publishers
1986	Dutra Ron J	R.L. Polk & Co Publishers

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	Dutra Ron	R.L. Polk & Co Publishers

5196 E DWIGHT WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	Not Verified	R.L. Polk & Co Publishers

5198 E DWIGHT WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	EDWARD KUFFEL	Cole Information Services
2014	EDWARD KUFFEL	Cole Information Services
2009	EDWARD KUFFEL	Cole Information Services
2004	EDWARD KUFFEL	Cole Information Services
2002	Kuffel Edward R Jr E	R.L. Polk & Co Publishers
	Kuffel Marjorie L	R.L. Polk & Co Publishers
1999	EDWARD KUFFEL	Cole Information Services
1996	Kuffet Rick 5917 C	R.L. Polk & Co Publishers
1990	No Return	R.L. Polk & Co Publishers
1986	Vacant	R.L. Polk & Co Publishers

KAREN AVE

1999 KAREN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	Fleming Jack E	R.L. Polk & Co Publishers

2004 KAREN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	Tepperman David	R.L. Polk & Co Publishers

2017 KAREN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	Shultz Wm	R.L. Polk & Co Publishers

2039 KAREN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	Wright Bob J	R.L. Polk & Co Publishers

2061 KAREN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	Vacant	R.L. Polk & Co Publishers

FINDINGS

S KAREN AVE

1999 S KAREN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	ANDRES SANCHEZ	Cole Information Services
2009	JACK FLEMING	Cole Information Services
2004	JACK FLEMING	Cole Information Services
2002	Fleming Jack E 81+ A	R.L. Polk & Co Publishers
	Fleming Socorro V	R.L. Polk & Co Publishers
1999	OCCUPANT UNKNOWN	Cole Information Services
	JACK FLEMING	Cole Information Services
1996	Fleming Jack	R.L. Polk & Co Publishers
1994	FLEMING, JACK	Cole Information Services
1990	Fleming Jack	R.L. Polk & Co Publishers
1986	Fleming Jack E	R.L. Polk & Co Publishers

2004 S KAREN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	DAVID TEPPERMAN	Cole Information Services
2014	DAVID TEPPERMAN	Cole Information Services
2009	DAVID TEPPERMAN	Cole Information Services
2004	DAVID TEPPERMAN	Cole Information Services
2002	Tepperman David J & Margot 8 E+	R.L. Polk & Co Publishers
1999	OCCUPANT UNKNOWN	Cole Information Services
	DAVID TEPPERMAN	Cole Information Services
1990	No Return	R.L. Polk & Co Publishers
1986	No Return	R.L. Polk & Co Publishers

2017 S KAREN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	JACQUELYN GOODWIN	Cole Information Services
2014	MARY SHULTZ	Cole Information Services
2009	WILLIAM SHULTZ	Cole Information Services
2004	WILLIAM SHULTZ	Cole Information Services
2002	Shultz Mary L 81+ A	R.L. Polk & Co Publishers
1999	WILLIAM SHULTZ	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
1990	Shultz Wm	R.L. Polk & Co Publishers
1986	Shultz Wm	R.L. Polk & Co Publishers

FINDINGS

2039 S KAREN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	SERENA KUBIAK	Cole Information Services
2014	SERENA KUBIAK	Cole Information Services
2009	SERENA KUBIAK	Cole Information Services
2004	RICHARD KUBIAK	Cole Information Services
2002	Kubiak Richard G & Josephine 81+ A	R.L. Polk & Co Publishers
1999	SERENA KUBIAK	Cole Information Services
1996	Kubiek Richard G	R.L. Polk & Co Publishers
1994	KUBIAK, RICHARD G	Cole Information Services
1990	No Return	R.L. Polk & Co Publishers
1986	Budke Carl P	R.L. Polk & Co Publishers

2061 S KAREN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	JUSTIN RENGE	Cole Information Services
2014	MARIGE IWAI	Cole Information Services
2002	Renge Marjorie M 11+ A	R.L. Polk & Co Publishers
	Renge Lawson	R.L. Polk & Co Publishers
1990	No Return	R.L. Polk & Co Publishers
1986	Vacant	R.L. Polk & Co Publishers

S PEACH AVE

2021 S PEACH AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	AGRICULTURAL RESEARCH SERVICE	Cole Information Services
2004	UNITED STATES GOVERNMENT AGRI	Cole Information Services
2002	US AGRICULTURAL RESEARCH SVC	R.L. Polk & Co Publishers
	US DEPARTMENT AGRICULTURE LIBR	R.L. Polk & Co Publishers
1999	UNITED STATES GOVERNMENT AGRICULTURE DEPARTMENT OF	Cole Information Services
1996	AGRICULTURAL RESEARCH SVC	R.L. Polk & Co Publishers
1994	US AGRICULTURAL RESEARCH SVC	Cole Information Services
1990	US Dept of Agrl Research Serv Admn Ofc	R.L. Polk & Co Publishers
	U S Dept of Agrl Fruit Products Research	R.L. Polk & Co Publishers
	U S D A Ecology & Biological Control	R.L. Polk & Co Publishers
	U S D A Water Management Lab	R.L. Polk & Co Publishers
1986	US Dept Of Agr I Research Serv Adnin Ofc	R.L. Polk & Co Publishers
	U S Dept Of Agrl Fruit Products	R.L. Polk & Co Publishers

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1986	Research	R.L. Polk & Co Publishers
	U S D A Horticultural Crops Research Lab	R.L. Polk & Co Publishers
	U S D A Water Management Lab	R.L. Polk & Co Publishers
1980	US Dept Of Agrl Research Serv Admn Ofc	R.L. Polk & Co Publishers
	U S Dept Of Agrl Crop Research	R.L. Polk & Co Publishers
1975	US Dept Of Agrl Research Serv Admn Ofc	R.L. Polk & Co Publishers
	U S Dept Of Agrl Crop Research	R.L. Polk & Co Publishers
1970	U S Dept Of Agricultural Research Serv	R.L. Polk & Co Publisher
	U S Dept Of Agr I Crop Research	R.L. Polk & Co Publisher
1965	U S DEPT OF AGRICULTURAL RESEARCH SERV	R.L. Polk & Co Publisher
	U S DEPT OF AGRL CROP RESEARCH	R.L. Polk & Co Publisher
1962	US Agr I Marketing Serv CL	Pacific Telephone
	US Agri Rieearch Serv	Pacific Telephone
1958	Agrl Mkt Serv Research	R.L. Polk & Co Publishers
	ACL 5 02 Q	R.L. Polk & Co Publishers
	Tel Serv for Am Contract	R.L. Polk & Co Publishers
	Bridge League c	R.L. Polk & Co Publishers
	Weinberger John H c	R.L. Polk & Co Publishers

2108 S PEACH AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	ROSE BALES	Cole Information Services
2002	Not Verified	R.L. Polk & Co Publishers
1990	No Return	R.L. Polk & Co Publishers
1986	No Return	R.L. Polk & Co Publishers
1980	Vacant	R.L. Polk & Co Publishers
1970	Bales Donald	R.L. Polk & Co Publisher
1965	BALES DONALD	R.L. Polk & Co Publisher
1962	Bales Donald 0 CL	Pacific Telephone

2123 S PEACH AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1962	Jones Albert 0 CL	Pacific Telephone

2130 S PEACH AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1990	No Return	R.L. Polk & Co Publishers
1986	Vacant	R.L. Polk & Co Publishers

FINDINGS

2155 S PEACH AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	Henrietta Rancho Of Cal fruit concentrates	R.L. Polk & Co Publishers
1975	Henrietta Rancho Products Co fruit concentrates	R.L. Polk & Co Publishers
1970	Henrietta Rancho Products Co fruit concentrates	R.L. Polk & Co Publisher
1965	HENRIETTA RANCHO PRODUCTS CO FRUIT CONCENTRATES	R.L. Polk & Co Publisher
1962	Henrietta Ranch o Products Co fruit juices CL	Pacific Telephone

2175 S PEACH AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	Rodriquez Sertio	R.L. Polk & Co Publishers
1975	Fisher Charles D	R.L. Polk & Co Publishers
1970	Fisher Charles D	R.L. Polk & Co Publisher
1965	FISHER CHARLES D	R.L. Polk & Co Publisher

2176 S PEACH AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1962	Fishor Chas D CL	Pacific Telephone

2181 S PEACH AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1975	Shepard Industries mach & welding shop	R.L. Polk & Co Publishers
1970	Shepard Industries mach & welding shop	R.L. Polk & Co Publisher
1965	SHEPARD INDUSTRIES MACH & WELDING SHOP	R.L. Polk & Co Publisher
1962	Shepard Industries mach & wldg shop CL	Pacific Telephone

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

<u>Address Researched</u>	<u>Address Not Identified in Research Source</u>
1999 KAREN AVE	2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1990, 1986, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
1999 S KAREN AVE	2017, 2014, 2009, 2004, 1999, 1994, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
1999 S KAREN AVE	2017, 2002, 1996, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2004 KAREN AVE	2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1990, 1986, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2004 S KAREN AVE	2017, 2014, 2009, 2004, 1999, 1996, 1994, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2004 S KAREN AVE	2002, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2017 KAREN AVE	2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1990, 1986, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2017 S KAREN AVE	2017, 2014, 2009, 2004, 1999, 1996, 1994, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2017 S KAREN AVE	2002, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2021 S PEACH AVE	2017, 2014, 2002, 1996, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2021 S PEACH AVE	2017, 2014, 2009, 2004, 1999, 1994, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2039 KAREN AVE	2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1990, 1986, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2039 S KAREN AVE	2017, 2014, 2009, 2004, 1999, 1994, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2039 S KAREN AVE	2002, 1996, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2061 KAREN AVE	2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1990, 1986, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2061 S KAREN AVE	2017, 2014, 2009, 2004, 1999, 1996, 1994, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2061 S KAREN AVE	2009, 2004, 2002, 1999, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2108 S PEACH AVE	2017, 2014, 2009, 2004, 1999, 1996, 1994, 1975, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2108 S PEACH AVE	2017, 2014, 2009, 2002, 1999, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2123 S PEACH AVE	2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2130 S PEACH AVE	2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922

FINDINGS

Address Researched

5182 E DWIGHT WAY

5182 E DWIGHT WAY

5185 E DWIGHT WAY

5185 E DWIGHT WAY

5188 E DWIGHT WAY

5188 E DWIGHT WAY

5191 E DWIGHT WAY

5191 E DWIGHT WAY

5192 E DWIGHT WAY

5192 E DWIGHT WAY

5196 E DWIGHT WAY

5198 E DWIGHT WAY

5198 E DWIGHT WAY

Address Not Identified in Research Source

2002, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922

2017, 2014, 2009, 2004, 1999, 1996, 1994, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922

2017, 2014, 2009, 2004, 1999, 1996, 1994, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922

2017, 2002, 1999, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922

2002, 1999, 1996, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922

2017, 2014, 2009, 2004, 1999, 1994, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922

2017, 2014, 2009, 2004, 1999, 1996, 1994, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922

2017, 2014, 2002, 1999, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922

2017, 2004, 2002, 1996, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922

2017, 2014, 2009, 2004, 1999, 1996, 1994, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922

2017, 2014, 2009, 2004, 1999, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922

2017, 2014, 2009, 2004, 1999, 1994, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922

2002, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched

2122 S Peach Ave

Address Not Identified in Research Source

2017, 2009, 2004, 1999, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922



USER QUESTIONNAIRE



APN
481-020-47

USER QUESTIONNAIRE
ASTM E 1527-13

(1) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25)

Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? NO

(2) Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).

Are you aware of any AULs such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

NO

(3) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28)

As the user of the ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

NO

(4) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29)

Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

Yes we are paying fair market value

(5) Commonly known or reasonably ascertainable information about the property (40 CFR 312.29)

Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,

(a) Do you know the past uses of the property? yes As land and housing

(b) Do you know of specific chemicals that are present or once were present at the property? NO

(c) Do you know of spills or other chemical releases that have taken place at the property? NO



481-020-47

(d) Do you know of any environmental cleanups that have taken place at the property?

NO

(5) The degree of obviousness of the presence or likely presence of contamination at the property and the ability to detect the contamination by appropriate investigation (40 CFR 312.31)

As the user of the ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property? _____

NO, but please see old phase 1

Completed by: Zach Barnes

Date: 1/26/21

Acronyms and Definitions

AUL Activity and Use Limitations

CFR Code of Federal Regulations

ESA Environmental Site Assessment

Engineering Controls

Physical modifications to a site or facility (for example, capping, slurry walls, or point of use water treatment) to reduce or eliminate the potential for exposure to hazardous substances or petroleum products in the soil or groundwater on the property. Engineering controls are a type of activity and use limitation.

Institutional Controls

A legal or administrative restriction (for example, “deed restrictions” restrictive covenants, easements, or zoning) on the use of, or access to, a site or facility to (1) reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or groundwater on the property, or (2) to prevent activities that could interfere with effectiveness of a response action, in order to ensure maintenance of a conditions of no significant risk to public health or the environment. An institutional control is a type of activity and use limitation.

User

The part seeking to use Practice E 1527-13 to complete an environmental site assessment of the property. A user may include, without limitation, a potential purchaser of property, a potential tenant of the property, an owner of property, a lender, or a property manager. The user has specific obligations for completing a successful application of the practice as outlined in Section 6.



APW 481-020-31

USER QUESTIONNAIRE
ASTM E 1527-13

(1) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25)

Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? NO

(2) Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).

Are you aware of any AULs such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

NO

(3) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28)

As the user of the ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

NO

(4) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29)

Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

Yes we are paying fair market value

(5) Commonly known or reasonably ascertainable information about the property (40 CFR 312.29)

Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,

(a) Do you know the past uses of the property? Yes Ag land and housing

(b) Do you know of specific chemicals that are present or once were present at the property?

NO

(c) Do you know of spills or other chemical releases that have taken place at the property?

NO



(d) Do you know of any environmental cleanups that have taken place at the property?

NO

(5) The degree of obviousness of the presence or likely presence of contamination at the property and the ability to detect the contamination by appropriate investigation (40 CFR 312.31)

As the user of the ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property? _____

NO Buyer has mentioned household garbage pit at the NE corner of property

Completed by: Zach Bonner

Date: 1/26/21

Acronyms and Definitions

AUL Activity and Use Limitations

CFR Code of Federal Regulations

ESA Environmental Site Assessment

Engineering Controls

Physical modifications to a site or facility (for example, capping, slurry walls, or point of use water treatment) to reduce or eliminate the potential for exposure to hazardous substances or petroleum products in the soil or groundwater on the property. Engineering controls are a type of activity and use limitation.

Institutional Controls

A legal or administrative restriction (for example, "deed restrictions" restrictive covenants, easements, or zoning) on the use of, or access to, a site or facility to (1) reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or groundwater on the property, or (2) to prevent activities that could interfere with effectiveness of a response action, in order to ensure maintenance of a conditions of no significant risk to public health or the environment. An institutional control is a type of activity and use limitation.

User

The part seeking to use Practice E 1527-13 to complete an environmental site assessment of the property. A user may include, without limitation, a potential purchaser of property, a potential tenant of the property, an owner of property, a lender, or a property manager. The user has specific obligations for completing a successful application of the practice as outlined in Section 6.



INTERVIEW QUESTIONNAIRE

**INTERVIEW QUESTIONNAIRE
ASTM E 1527-13**

In accordance with Sections 10 and 11 of the Standard Practice for Phase I Environmental Site Assessments (ESA); Designation E1527-13 the environmental professional shall address questions to be asked of past and present owners, operators, and occupants of the property.

We ask that you complete the following questions to the best of your knowledge and return it to us at your earliest convenience for inclusion in the Phase I ESA.

1. Is there litigation or administrative proceedings relevant to hazardous substances or petroleum products? NO

 2. Are you aware of the existence of structures on site in the past? YES
If so, was there asbestos containing building materials in the structure? UNKNOWN

 3. Are there or has there ever been chemicals, pesticides or herbicides used, mixed or formulated onsite? yes, AGRICULTURAL
If so, what types? unknown
Storage areas: UNKNOWN

 4. Are there or has there ever been above ground or underground storage tanks at the site? YES
Location 2122 S. Peach - See reports provided to KB
Contents See disclosure information previously provided to KB
Permits NO

 5. Have any solid or liquid waste been disposed of, treated or neutralized onsite? Unknown
If so, what types _____
Permits _____

 6. Have there been any spills, leaks or other releases of chemicals onsite? yes - in Willbanks.
What chemicals? Asphalt like material
Quantity unknown
Cleanup measures? Removed by Caglia Demolition
Are there any enforcement actions pending against the property? No

 7. Are you aware of any past uses of the subject site such as agricultural or commercial usage? yes
We were fold a brick factory prior to becoming farm land
- Completed by: Steve Chaner + Bob [Signature]
- Date: 1-27-2021



INTERVIEW QUESTIONNAIRE
ASTM E 1527-13

In accordance with Sections 10 and 11 of the Standard Practice for Phase I Environmental Site Assessments (ESA); Designation E1527-13 the environmental professional shall address questions to be asked of past and present owners, operators, and occupants of the property.

We ask that you complete the following questions to the best of your knowledge and return it to us at your earliest convenience for inclusion in the Phase I ESA.

- Is there litigation or administrative proceedings relevant to hazardous substances or petroleum products? NO
- Are you aware of the existence of structures on site in the past? Yes, 1 single family home & detached GARAGE
If so, was there asbestos containing building materials in the structure? I DO NOT KNOW
- Are there or has there ever been chemicals, pesticides or herbicides used, mixed or formulated onsite? I DO NOT KNOW
If so, what types? _____
Storage areas: _____
- Are there or has there ever been above ground or underground storage tanks at the site? NOT TO MY KNOWLEDGE
Location _____
Contents _____
Permits _____
- Have any solid or liquid waste been disposed of, treated or neutralized onsite? YES
If so, what types? Household garbage pit; APPROX. LOCATION NORTHEAST CORNER
Permits _____
- Have there been any spills, leaks or other releases of chemicals onsite? I DO NOT KNOW
What chemicals? _____
Quantity _____
Cleanup measures? _____
Are there any enforcement actions pending against the property? NO
- Are you aware of any past uses of the subject site such as agricultural or commercial usage? NO

Completed by:

Dore Arvedsson

Date:

1/28/2021



RECORD REQUESTS AND RESPONSES



DOCUMENTS AND REPORTS



Received

DEC 24 2015

Department of Public Health
Environmental Health Division



EDMUND G. BROWN JR.
GOVERNOR

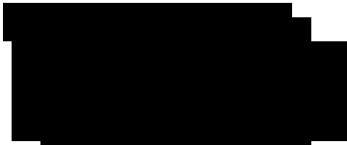


MATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Central Valley Regional Water Quality Control Board

Ohanesian
FA0284615
PR0074210
6706
CIN

23 December 2015



PRELIMINARY SITE INVESTIGATION [REDACTED] ESTATE [REDACTED]
[REDACTED] FRESNO, FRESNO COUNTY

We reviewed the subject report prepared by Willbanks Environmental Consulting, Inc., and dated 24 November 2015. The report summarizes a preliminary soil assessment and excavation of degraded soil.

A tarry substance was encountered during the demolition of a concrete structure at the site. Laboratory analytical results indicated that the substance resembled crude oil with no benzene or naphthalene detected. The concrete structure was removed and the tarry substance disposed of at a licensed facility. The area below the structure was excavated to a depth of 10 feet. Degraded soil not below the structure was removed to a minimum depth of five feet and the highest concentration remaining at five feet was 1,900 milligrams per kilogram. The highest concentration of total petroleum hydrocarbons at 10 feet was 6,900 milligrams per kilogram. Soil borings were drilled from 20 to 50 feet below site grade. No groundwater was encountered. Total petroleum hydrocarbon as crude oil concentrations below 15 feet were below 1,000 milligrams per kilogram. Benzene, toluene, ethylbenzene, xylenes, and naphthalene have not been detected in any of the samples. The consultant does not recommend any further action.

Comments

Remaining concentrations of petroleum hydrocarbons above a depth of 10 feet do not pose a threat to human health from contact based on San Francisco Regional Water Quality Control Board screening levels for motor oil and heavier petroleum hydrocarbons. No volatile petroleum constituents were detected that could pose a threat to indoor air quality and all degraded soil has been removed above a depth of five feet.

It appears that assessment and remediation required by site conditions has been completed. Provided the information you submitted to this agency was accurate and representative, no further assessment or remediation is required for this site. Please be advised that this letter

does not relieve you of any liability under the California Water Code or Health and Safety Code for past, present, or future operations at the site. Nor does it relieve you of any responsibility to clean up existing, additional, or previously unidentified conditions at the site that cause or threaten to cause degradation or nuisance or otherwise pose a threat to water quality or public health.

If you have any questions, please contact [REDACTED] at [REDACTED]

JA
[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Engineering Geologist
PG No. 4435

Senior Engineer
RCE No. 43140

JA:ja

cc: Fresno County Environmental Health Department, Fresno
Noelle Willbanks, Willbanks Environmental Consulting, Inc., 755 N. Peach Ave, Suite G-13,
Clovis, CA 93611



**Department Of Public Health
ENVIRONMENTAL HEALTH APPLICATION**
P O Box 11867, Fresno, CA 93775-1867 • 1221 Fulton Mall, 3rd Floor
☎ (559) 600-3357 • www.fcdph.org
EnvironmentalHealth@co.fresno.ca.us

Business Name Ohanesian Property **APN** 48102047
Inspection Site 2122 South Peach Avenue **Lat** 36.7202430
Address Fresno, California **Long** -119.7208200

Date of Business Commencement _____ **Business Telephone** _____

Billing Address _____

Business Owner Steve Ohanesian

Owner Address 2122 South Peach Ave

Fresno, CA 93725 **Telephone** _____

Email Address _____

The Applicant hereby agrees to abide by all applicable Federal, State, and Fresno County statutes, laws, regulations, and the Fresno County Charter Ordinances and to pay all applicable Fresno County Environmental Health Permit and Inspection Fees, State surcharges and late penalties, if any, which apply to the Permit which is being applied for here. PENALTIES FOR LATE PAYMENT ARE ASSESSED AT 10% PER MONTH OR FRACTION THEREOF. Notify Environmental Health of any change in the type of business activity, name, billing address, or ownership by calling (559) 600-3357. Failure to notify Environmental Health may result in late penalties, Permit denial or revocation, and business closure. **PERMITS AND FEES ARE NOT TRANSFERABLE.**

Owner/Authorized Signature **Title** **Date**

— DO NOT WRITE BELOW THIS LINE —

Record ID#	EE#	PE#	Fee/Activity Description	Billing Code	Fee
PR00 74210		6706	CONTAMINATED SITE - MISC/RWQCB LEAD		

Penalty Calculation: _____ **Penalty Due** _____

UST Surcharge Calculation: _____ **TOTAL AMOUNT DUE** \$ 0.00

MAKE CHECK PAYABLE TO: FRESNO COUNTY TREASURER

RETURN TO: BELL Date Left/Mailed/Taken In: 12/15/2015 Taken In By: BELL

New Business Ownership Change/Correction Business Name Change Activity Change Other

Previous Owner Closure Date _____ Site Correction/Change Billing Address Change

Comments PLEASE CREATE FA AND PR. FILE CREATION PROMPTED BY SOIL ANALYSIS REPORT RECEIVED FROM ENVIRONMENTAL ENGINEERING CONSULTING FIRM, DATED 11/24/15.

Business Name _____ Owner _____

Inspection Site _____

FA# 0284615 Census 1,406.00 City Code 05

Approved by [Signature]

EE# 0111 Supervisor Review [Signature] III [Signature]

Date _____ Envision updated by [Signature] Date 1/05/16



**PHASE I
ENVIRONMENTAL SITE ASSESSMENT
APN'S: 481-020-01 & 47
2121 S. WILLOW AVE & 2122 S. PEACH AVE
FRESNO, CALIFORNIA 93725**

January 13, 2020

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A Report Prepared for:

**Robert Ohanesian
Stephen Ohanesian
Ohanesian Holdings LLC
6110 N Brooks Circle
Fresno, CA 93711**

**PHASE I ENVIRONMENTAL SITE ASSESSMENT
APN'S: 481-020-01 & 47
2121 S. WILLOW AVE & 2122 S. PEACH AVE
FRESNO, CALIFORNIA 93725**

Project No: 19-249
January 13, 2020



Ryan Brosius, Environmental Supervisor

Nathan Gleaves, R.C.E.



Precision Civil Engineering, Inc.
1234 "O" Street
Fresno, Ca 93721
(559) 449-4500
(559) 449-4515 (facsimile)

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D	Interview and Regulatory Agency Documentation

1 EXECUTIVE SUMMARY

A Phase I Environmental Site Assessment (ESA) was conducted for the Ohanesian Property; the property is located at 2122 South Peach & 2121 South Willow Avenue in Fresno, Fresno County, California (See Plate 1, Site Location Map.). The subject site is an undeveloped property encompassing approximately 76-acres (APN's 481-020-01 & 047). This report was prepared using the American Society of Testing and Materials (ASTM), *Standard Practice for Phase I Environmental Site Assessment Process* E1527-13. In summary, Precision Civil Engineering, Inc.'s assessment revealed evidence of the following recognized environmental conditions (RECs):

- Ohanesian Property, located at 2122 S Peach Avenue appears on the CUPA Listings database with the RWQCB as the lead. During 2015, a voluntary soil removal was performed at the site during the demolition of an onsite structure. According to Bob and Steve Ohanesian the sites owners the structure was part a brick factory that was located on the site. No other information was found as to what the facility was. The 1923 topographical map shows a large structure and a railroad spur in this location but by the 1936 aerial photograph this structure is no longer present. All that remained of this facility is a circular structure as seen in the historical photographs until it was removed in 2015.
- In 2018 the site located at 2121 S Willow Ave (in the area of the former onsite residence) had the following incident. Pacific Gas & Electric (PG&E) hired contractors to perform horizontal borings near the property. One of the contractors dumped drilling spoils on the site without permission. PG&E hired a testing lab to test the soils and characterize them for disposal. The soil was removed and clean fill was brought back onto the property in place of the removed soils.
- Based on historical documentation and the owners interview the site contained structures as seen on the Aerial Photographs and depicted on the topographical maps before 1923 to 2012.
- A well head is located in the north central portion of APN 481-020-47.
- Irrigation standpipes were noted on the northern and eastern borders of the site, and adjacent to the well head.
- A basin is located on the western border of APN 481-020-47. The basin was noted as first appearing in the 1979 aerial photograph.
- Debris piles were noted in the basin and along the railroad line to the north of the site. The debris consisted of household trash, railroad ties and concrete. Debris consisting of household trash. Stucco debris, and yard clippings was located in the northwestern portion of the site.

- There are three off-site facilities listed within the ASTM regulatory agency databases researched by EDR. Based on the databases listed, limited extent of the releases and distance from the site, the following three locations are not expected to have an adverse impact on the subject site: USDA Agricultural Research Service, located at 2221 South Peach Avenue adjacent to the east of the site, Martin Dedekian, located at 2178 S Willow Avenue adjacent to the west of the site, Fruit Genetics and Breeding Research (USDA ARS, USDA Agricultural Research), located at 2021 S Peach Avenue approximately 500 feet to the northeast of the site.

In addition to the above list, RECs, deviations, historical environmental conditions and de minimus findings are discussed in Chapter 8. This report is subject to the limitations in Chapter 2.

2 INTRODUCTION

2.1 PURPOSE

Precision Civil Engineering, Inc. (PCE) conducted a Phase I Environmental Site Assessment (ESA) of the subject property. It is our understanding that this report will assist the client in recognizing environmental conditions associated with the subject property's past and current use. PCE performed this ESA in general accordance with the scope and limitations of the *American Society for Testing and Materials (ASTM) Standard Practice for Phase I Environmental Site Assessment Process E1527-13*.

The purpose of this assessment is to assist the client in recognizing environmental conditions at the site. A recognized environmental condition is defined by the ASTM standard as "the presence or likely presence of hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater or surface water of the property." The term includes hazardous substances or petroleum products even under conditions in compliance with laws.

Resumes of PCE environmental professionals conducting this report are available upon request.

2.2 DETAILED SCOPE OF SERVICES

The following sections describe PCE's work scope:

- Chapter 2, **Introduction**, includes a discussion of the purpose/reason for performing the Phase I ESA; additional services requested by the client (e.g. an evaluation of business environmental risk factors associated with the property); significant assumptions (e.g. property boundaries if not marked in the field); limitations, exceptions, and special terms and conditions (e.g. contractual); and user reliance parameters.
- Chapter 3, **Site Setting**, is a compilation of information concerning the site location, legal description (if available), current and proposed use of the subject site, a description of structures and improvements on site at the time of PCE's assessment, and current uses of adjoining properties.
- Chapter 4, **Records Review**, is a compilation of PCE's review of several databases available from federal, state and local regulatory agencies regarding

hazardous substance use, storage or disposal at the subject site; and for off-site facilities within the search distance specified in the ASTM standard. Records provided by the client are summarized and copies of the relevant documents are included in the appendices of this report. Interviews and telephone conversations conducted by PCE with regulatory agency representatives are included in Chapter 4. Physical setting sources (including topography, soil and groundwater conditions) are also summarized in this chapter, as is client-provided information (i.e., for environmental liens, specialized knowledge, valuation reduction for environmental issues, and owner, property manager and occupant information). Other interviews with people knowledgeable about the site (including the client) are included in Chapter 7.

- Chapter 5, **Historical Use of the Property and Adjoining Properties**, summarizes the history of the site and adjoining properties. This history is based on various sources which may include: a review of aerial photographs, Sanborn Fire Insurance Maps, city or suburban directories, historical topographic maps, building department records and previous assessments.
- Chapter 6, **Site Reconnaissance**, describes PCE's site observations during the site reconnaissance. The methodology used and limiting conditions are described.
- Chapter 7, **Interviews**, is a summary of telephone and personal interviews conducted with "key managers" that may include the owner/manager of the facility, occupants/tenants, local government officials and the client. Additional interview sources may be contacted if "key managers" are not available prior to production of this report and include adjacent landowners and people with historical knowledge of the area.
- Chapter 8, **Evaluation**, discusses our findings and opinions regarding the information in Chapters 3 through 7 and offers our conclusion regarding the presence of recognized environmental conditions connected with the site.
- Chapter 9, **References**, is a summary list of the resources used to compile this report.

Pertinent documentation regarding the subject site is included in Appendices of this report.

2.3 ADDITIONAL SERVICES

An evaluation of business environmental risk associated with the parcel(s) was not included in PCE's scope of work. The ASTM Phase I ESA scope does not incorporate non-scope considerations, such as (but not limited to): asbestos-containing materials, radon, lead-based paint, lead in drinking water, wetlands, regulatory compliance,

cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, and high voltage power lines.

2.4 SIGNIFICANT ASSUMPTIONS

The subject property is hereafter referred to as the "site."

2.5 LIMITATIONS AND EXCEPTIONS

Phase I ESAs are non-comprehensive by nature and are unlikely to identify all environmental problems or eliminate all risk. This report is a qualitative assessment. Although risk can never be eliminated, more detailed and extensive investigations yield more information, which may help you understand and better manage your risks. Since such detailed services involve greater expense, we ask our clients to participate in identifying the level of service, which will provide them with an acceptable level of risk. Please contact the signatories of this report if you would like to discuss this issue of risk further. No warranty/guarantee – either expressed or implied – is given.

PCE performed this environmental assessment in general accordance with the guidelines set forth in the *ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (Designation E-1527-13), subsequently approved by you as our client. No warranty – either express or implied – is made. Environmental issues not specifically addressed in the report were beyond the scope of our work and not included in our evaluation.

This report may be used only by the Client and only for the purposes stated within a reasonable time for its issuance, *but in no event later than one year from the date of the report*. Land or facility use, on and off-site conditions, regulations or other factors may change over time, and additional work may be required with the passage of time. Since site activities and regulations beyond our control could change at any time after the completion of this report, our observations, finding and opinions can be considered valid only as of the date of the site visit. This report should not be relied upon after 180 days from the date of issuance (ASTM Standard E-1524-13, Section 4.6). Any party other than the Client who wishes to use this report shall notify PCE of such intended use. Based on the intended use of this report, PCE may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the Client or anyone else will release PCE from any liability resulting from the use of this report by any unauthorized party and Client agrees to defend, indemnify, and hold harmless PCE from any claim or liability associated with such unauthorized use or non-compliance.

2.6 SPECIAL TERMS AND CONDITIONS

No special terms and conditions, in addition to those discussed in the previous chapters, were agreed to by the User and PCE.

3 SITE SETTING

The site setting is presented in this section and describes the condition of the subject site at the time of the Phase I ESA. The site location is shown on Plate 1 in Appendix A. Tables 3.1 through 3.5 provide the physical characteristics of the site and bordering properties.

3.1 LOCATION AND LEGAL DESCRIPTION

The information presented in Table 3.1 describes the physical location and legal description of the subject site. This information was obtained from review of various maps, public records at city and/or county offices, interviews and information provided by the Client.

**TABLE 3-1
LOCATION AND LEGAL DESCRIPTION**

ADDRESSES	2121 South Willow Avenue & 2122 South Peach Avenue
HISTORICAL ADDRESSES	Unknown
LOCATION	Located between Willow Avenue and Peach Avenue south of the East California Avenue Alignment.
TOWNSHIP & RANGE	Sec. 18 Township 14 South, Range 21 East.
ASSESSOR'S PARCEL NUMBER	481-020-01 & 481-020-47
LEGAL DESCRIPTION	<p>2122 S Peach Ave Lots 1 and 2 of Newhall Tract, According to the Map thereof, Recorded in Book 2 Page 42 of Record of Surveys, In the office of the county recorder of said county. Excepting from Lot 1, The southerly 75 feet of the Northerly 130 feet of the easterly 115 feet thereof.</p> <p>2121 S Willow Ave Lots 15 and 16 of Newhall Tract, According to the Map thereof, Recorded in Book 2 Page 42 of Record of Surveys, In the office of the County Recorded of said county.</p>
ACREAGE	76
POTABLE WATER	City of Fresno
SEWER	City of Fresno
ZONING	RS-5/UGM

3.2 CURRENT/PROPOSED USE OF THE PROPERTY

Land use on site was vacant undeveloped land. The general vicinity appeared to be undeveloped and residential at the time of PCE’s assessment. Current and proposed uses are described in Table 3-2.

**TABLE 3-2
CURRENT/PROPOSED USES**

Parameter	General Observations
CURRENT USE	A vacant lot
PROPOSED USE	Residential

3.3 DESCRIPTION OF STRUCTURES/IMPROVEMENTS

Structures and/or improvements observed on site at the time of PCE’s site reconnaissance are described in Table 3-3.

**TABLE 3-3
STRUCTURES/IMPROVEMENTS**

Parameter	General Observations
STRUCTURES	None
IMPROVEMENTS	Power poles, standpipes, a well, and a water basin.

3.4. CURRENT USES OF ADJOINING PROPERTIES

PCE performed a brief drive-by survey of the parcels immediately adjacent to the site on January 9, 2019. A summary of the surrounding properties is presented in Table 3.4.

**TABLE 3-4
SURROUNDING PROPERTIES**

North	Railroad tracks beyond which is residential.
South	Residential
East	A vacant lot and residential.
West	A vacant lot and residential.

Hazardous materials were not observed to be stored adjacent to the subject site, nor were other environmental conditions apparent at the time of PCE's site reconnaissance.

4 RECORDS REVIEW

4.1 STANDARD ENVIRONMENTAL RECORD SOURCES

The purpose of the records review is to obtain and review records that would help to evaluate recognized environmental conditions of potential concern in connection with the subject site and bordering properties.

Federal, state and local regulatory agencies publish databases or "lists" of businesses and properties that handle hazardous materials or hazardous waste, or are a known location of a release of hazardous substances to soil and/or groundwater. These databases are available for review and/or purchase at the regulatory agencies, or the information may be obtained through a commercial database service. PCE contracted with a commercial database service – Environmental Data Resources (EDR) of Southport, Connecticut – to perform the government database search for listings within the appropriate ASTM minimum search distance to the site. A description of the types of information contained in each of the databases reviewed and the agency responsible for compiling the data is also included in the EDR Radius Report. The EDR database search results are included in Appendix C, are summarized on Table 4-1.

**TABLE 4-1
RECORDS REVIEW-SEARCH DISTANCE**

FEDERAL	DISTANCE
EPA National Priority List (NPL)	1-mile
De-listed National Priority List (NPL)	½-mile
Comprehensive Environmental Response Compensation Liability Information System (CERCLIS)	½-mile
CERCLIS-NFRAP (No Further Remedial Action Planned)	½-mile
Resource Conservation Recovery Act (RCRA)-CORRACTS TSD	1-mile
RCRA-non CORRACTS TSD	½-mile
RCRA-GEN/FINDS	Site & adjoining
FEDERAL	DISTANCE
ERNS	Site
US Engineering Controls, US Institutional Controls	Site & adjoining

**TABLE 4-1 (Cont.)
RECORDS REVIEW-SEARCH DISTANCE**

STATE/LOCAL	DISTANCE
CLEANERS	¼-mile
CORTESE (formerly Hazardous Waste Substances)	½-mile
Landfills (SWAT/SWF/LF)	½-mile
Leaking Underground Storage Tank (LUST)	½-mile
Site Mitigation and Brownfields Reuse Program Database	½-mile
SLIC (Spills, Leaks, Investigations & Clean-up)	½-mile
Toxic Chemical Release Inventory System (TRIS)	½-mile
Waste Discharge System (CA WDS)	½-mile
Cal-Sites, Bond Expenditure Plan (BEP), Annual Work Plan (AWP)	1-mile
Solid Waste Information System (SWIS)	1-mile
DEED	Site
Above Ground Storage Tank	Site & adjoining
California Hazardous Materials Information System (CHMIRS)	Site & adjoining
FINDS	Site & adjoining
HAZNET, Sacramento County Master List (SCML)	Site & adjoining
Sacramento County Contaminated Sites (SCCS)	½-mile
UST, CaFID, HistUST	Site & adjoining
Voluntary Cleanup (VCP)	½-mile
Recycler Database (SWRCY)	Site & adjoining

4.2 RESULTS OF DATABASE SEARCH

The following sections contain information on the results of EDR's record search. The subject site was listed on regulatory agency databases researched by EDR.

Ohanesian Property, located at 2122 S Peach Avenue appears on the CUPA Listings database. The property appears on the CUPA Listings database due to it being listed as a contaminated site – Misc with the RWQCB as the lead.

Off-site, there were three facilities listed within the ASTM search distance as follows:

USDA Agricultural Research Service, located at 2221 South Peach Avenue adjacent to the east of the site appears on the CUPA Listings. The facility appears on the CUPA Listings database due to a UST removal and closure of one tank.

Martin Dedekian, located at 2178 S Willow Avenue adjacent to the west of the site appears on the SWEEPS UST, HIST UST, CA FID UST and HIST UST databases. The facility appears on the UST databases due to a 550-gallon regular fuel tank.

Fruit Genetics and Breeding Research (USDA ARS, USDA Agricultural Research), located at 2021 S Peach Avenue approximately 500 feet to the northeast of the site appears on the HIST UST, FINDS, ECHO, CUPA Listings, LUST, HIST Cortese, CERS, SWEEPS UST and CA FID UST databases. The facility is listed as a UST Removal /closure site with seven tanks. The facility is listed on the LUST database due to a leaking underground storage tank containing diesel fuel affecting the soil. The case was closed in 4/4/96.

Sites not plotted by EDR due to poor or inadequate address information are referred to as orphan sites. There are five unmapped sites in the EDR Report. The orphan summary/unmapped sites report was reviewed to assess the potential for off-site properties to be listed on databases that fall within the ASTM search distances. Based on our review the sites are not adjacent to the site.

4.3 ADDITIONAL AGENCY ENVIRONMENTAL RECORDS

The following additional sources of environmental records were reviewed during this Phase I ESA for the purposes of meeting the ASTM standard. Local regulatory agencies were contacted for reasonably ascertainable and practically reviewable documentation regarding recognized environmental conditions present at the subject site and adjacent facilities (interview documentation is included in Appendix D). The following agencies were contacted for documentation:

- Fresno County Agricultural Commissioner's Office
- Fresno County Building Department
- Fresno County Environmental Health Department (MCEHD)
- Fresno County Office of Emergency Services
- State of California, Department of Water Resources
- State of California, Regional Water Quality Control Board
- State of California, Department of Conservation, Division of Oil and Gas
- State of California, Department of Toxic Substances Control
- State of California, Fire Marshal, Pipeline Safety Office
- City or Municipal Water District

The State of California, Department of Conservation, Division of Oil and Gas

The State of California, Department of Conservation, Division of Oil and Gas was not contacted because information concerning oil and gas fields were obtained from

published maps available for download on their Internet Web site www.consrv.ca.gov. Map findings are discussed in Table 4-2.

Fresno County Building Department

The Fresno County Building Department was contacted for information about the subject site. Fresno County Building Department did not contain any records for the subject site.

Fresno County Environmental Health Department (FCEHD)

File review was submitted on January 10, 2020 at the FCEHD for nearby facilities and the subject site. No records were on files for the subject site.

National Pipeline Mapping System (NPMS)

According to the NPMS website (<http://www.npms.phmsa.dot.gov/>) there are no pipelines in the vicinity of the site.

State of California, Department of Toxic Substances Control (DTSC)

DTSC was contacted on January 10, 2020 for information regarding hazardous materials and petroleum product incidents for the site. According to their website and the Envirostor Database (<http://www.envirostor.dtsc.ca.gov/public/map>), DTSC does not contain any information for the subject site.

Fresno County Office of Emergency Services (FC/OES)

FC/OES was contacted on January 10, 2020 for information regarding incidents with hazardous materials and/or petroleum products. At the time of report preparation, PCE had not received information from the FC/OES. If information that may change the findings of this report is received at a later date, PCE will inform the client and provide an addendum letter to this report.

State of California, Regional Water Quality Control Board (RWQCB)

The RWQCB online database (<https://geotracker.waterboards.ca.gov>) was reviewed on January 10, 2020 regarding hazardous materials and petroleum product incidents for the site. According to their website RWQCB does not contain any information for the subject site.

USDA Agriculture Research located at 2021 Peach Ave is listed due to a leaking underground tank. The leak was discovered during tank closure and only the soil was affected. The case was completed and the case was closed on 4/4/1995.

4.4 PHYSICAL SETTING SOURCE(S)

Table 4-2 presents information about the physical setting of the site. This information was obtained from published maps. A geotechnical investigation report was not available for PCE to review.

**TABLE 4-2
PHYSICAL SETTING**

USGS TOPOGRAPHIC QUADRANGLE	Malaga, CA Quadrangle, 7.5 Minute Map, Mt. Diablo Base and Meridian (2012)	The subject site is located at an approximate elevation of 300 feet above mean sea level (mfs) and the topographic relief is flat. The site is depicted as undeveloped.
GEOLOGIC MAP	Regional Geologic Map Series, San Francisco-San Jose Quadrangle, Map No. 5A, 1991; Scale: 1 inch = 3.95 miles	The subject site and the adjacent properties are shown as being underlain by the Modesto Formation.
SOIL TYPE	EDR	Two soil types are depicted onsite: Onsite soil is listed as Hanford and Ramona. The soil is described as having moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
OIL AND GAS FIELDS	ftp://ftp.consrv.ca.gov	According to the Web page, there are no gas or oil wells located on the site.

Information about the regional geology is presented in Table 4-3. This information was obtained from published data and maps, interviews with public agencies, and/or from previous investigations conducted by PCE in the vicinity of the site.

**TABLE 4-3
REGIONAL GEOLOGY AND HYDROGEOLOGY**

Physical Parameter	Information/Comments
REGIONAL GEOMORPHIC PROVINCE	<p>The site is located in the Great Valley Geographic Province in Central California. This province was formed by the filling of a large structural trough or downwarp of the underlying bedrock. The trough is situated between the Sierra Nevada Mountains on the east and the Coast and Cascade Ranges on the west. The trough, which underlies the Valley, is asymmetrical with the greatest depth of sediments along the western margin. The sediments that fill the trough originated as erosional debris from the adjacent mountains and foothills.</p> <p>The subject site is located in the San Joaquin Valley, which is the southern half of the Great Central Valley of California. The Valley fill consists of Jurassic to Holocene-aged marine, lacustrine, fluvial and eolian sediments. The Valley geomorphology includes dissected uplands, low alluvial plains and fans, river floodplains and channels, and overflow lands and lake bottoms.</p>

**TABLE 4-3 (Cont.)
REGIONAL GEOLOGY AND HYDROGEOLOGY**

<p>DEPTH TO REGIONAL GROUNDWATER¹ <i>(Source: DWR).</i></p>	<p>The depth to groundwater is approximately 90 feet below ground surface. General groundwater depth may be influenced by local pumping, rainfall and irrigation patterns.</p>
<p>DIRECTION OF ANTICIPATED FLOW¹ <i>(Source:DWR).</i></p>	<p>Regional groundwater flow direction is toward the west.</p>
<p>REGIONAL GROUNDWATER QUALITY PROBLEMS <i>(Source: EDR Radius Report, Geocheck Version 2.1 Summary)</i></p>	<p>Regional groundwater quality problems and regional impairments to water quality were not revealed during PCE's assessment. See below.</p>
<p>WATER SUPPLY <i>(Source: EDR, Inc. Geocheck, beginning p. A-11)</i></p>	<p>EDR's well search revealed seven USGS wells and 12 state wells within a 1-mile radius of the subject site. Groundwater flow direction was not mapped by EDR, Inc.</p>
<p>FLOOD ZONE DESIGNATION <i>(Source: EDR)</i></p>	<p>According to the EDR regulatory agency database search report, the subject site is within the 100-year flood zone.</p>

¹ Groundwater flow direction and anticipated depth to groundwater are based on regional information sources. Site-specific conditions may vary due to a variety of factors including geologic anomalies, utilities, nearby pumping wells (if present), and other developments.

4.5 USER PROVIDED INFORMATION

Information regarding current owner/occupant is listed in Table 4-4.

**TABLE 4-4
OWNER/OCCUPANT INFORMATION**

Entity	Name
OWNER(S)	Robert Ohanesian, Stephen Ohanesian, Ohanesian Holdings LLC
PROPERTY MANAGER	Unknown
OCCUPANT	None

Information on interviews with key individuals is provided in Chapter 7. The following section presents information provided by the Client.

4.5.1. TITLE RECORDS

A Preliminary Title Report or Chain-of-Title Report was provided to PCE prior to production of this report. These documents may provide information about land, including ownership and other interests in the land, easements and liens. Not all liens. Defects and encumbrances affecting title to the land may be included in the Preliminary Title Report.

Placer Title Company dated March 07, 2014 order number 2110-140.

2122 S Peach Ave

Lots 1 and 2 of Newhall Tract, According to the Map thereof, Recorded in Book 2 Page 42 of Record of Surveys, In the office of the county recorder of said county.

Excepting from Lot 1, the southerly 75 feet of the Northerly 130 feet of the easterly 115 feet thereof.

APN: 481-020-47

Placer Title Company dated March 06, 2014 order number 2110-139.

2121 S Willow Ave

Lots 15 and 16 of Newhall Tract, According to the Map thereof, Recorded in Book 2 Page 42 of Record of Surveys, In the office of the County Recorded of said county.

APN: 481-020-01

4.5.2. ENVIRONMENTAL LIENS

According to information provided in the EDR regulatory agency databases search report (EDR 2019), there are no liens listed in the United States Environmental Protection Agency's (US EPA's) Federal Superfund Liens List, and no known recorded land-use environmental deed restrictions pertaining to the subject site listed in the State liens database.

4.5.3. VALUE REDUCTION

As part of the ASTM E 1527-13 process, information must be gathered regarding the prospective purchase price of the property relative to the fair market value of the subject site. If there appears to be a value reduction, that reduction must be identified with

respect to whether the difference could be attributed to environmental degradation of the property. The property is listed at fair market value.

4.5.4. OTHER

The following reports were provided by the client:

Willbanks Environmental Consulting, Inc project number 15.018 Titled: *Preliminary Site Investigation Ohanesian Property 2122 South Peach Avenue Fresno, California* dated November 23, 2015.

Willbanks Environmental Consulting, Inc project number 19.086 Titled: *Review of Environmental Documents Ohanesian Property 2122 South Peach & 2121 South Willow Avenues Fresno, California* dated November 11, 2019.

Based on the review of these documents by Willbanks Environmental Consulting, Inc the following information was found.

2122 S Peach Ave

During 2015, a voluntary soil removal was performed at the site during the demolition of an onsite structure. The soil contained a "tar-like" substance that was removed from the site. Laboratory analyses indicated the substance to be a petroleum material consistent with an asphalt-like material. The subsurface soils beneath the site 15 feet and below did not show detectable concentrations of petroleum products. Based on the results of the investigations it appeared the extent of the asphalt-like material in soil is limited. The origin of the asphalt-like material appears to be from the removed concrete structure. Findings reported the majority of the impacted soils have been removed to 10-foot bgs and based on the depth to ground water (approximately 100 feet) impacts to the groundwater are unlikely. Findings were submitted to the California Regional Water Quality Control Board (RWQCB). The RWQCB issued a letter stating, "no further assessment or remediation is required for this site,".

2121 S Willow Ave

In 2018, Pacific Gas & Electric (PG&E) hired contractors to perform horizontal borings near the property. One of the contractors dumped drilling spoils on the site without permission. PG&E hired a testing lab to test the soils and characterize them for disposal. The soil was removed and clean fill was brought back onto the property in place of the removed soils. Based on the laboratory analytical results, the drilling spoils were within the Tier 2 Environmental Screening Levels for a residential development, with the exception of one sample that exceeded the level for TPHd. TPHd degrades over time when exposed to the atmosphere. Since the drilling spoils were removed and clean fill was brought in, there is no reason to expect that the underlying soils would have been impacted.

5 HISTORICAL USE OF THE PROPERTY AND ADJOINING PROPERTIES

The history of the site was researched to identify obvious uses of the site from the present to first developed use or to 1940, whichever is earlier, from readily available resources. Table 5-1 summarizes the availability of information reviewed during this assessment.

**TABLE 5-1
HISTORICAL SOURCES**

	Years reviewed	Availability
AERIAL PHOTOGRAPHS	1937, 1946, 1950, 1957, 1962, 1967, 1973, 1979, 1984, 1987, 1998, 2006, 2009, 2012, 2016	EDR
SANBORN FIRE INSURANCE MAPS	All Available	EDR
POLK AND HAINES CRISS-CROSS DIRECTORIES	All Available	EDR City Directory Abstract.
HISTORICAL TOPOGRAPHIC MAP REPORT	1923, 1946, 1947, 1948, 1964, 1972, 1981, 2012	EDR
BUILDING DEPARTMENT	All years available	Fresno County Building Department
PREVIOUS ASSESSMENT(S)	---	None
CHAIN-OF-TITLE OR PRELIMINARY TITLE REPORT	All Available	EDR
ENVIRONMENTAL LIEN SEARCH	All years available	EDR

5.1 AERIAL PHOTOGRAPHY

Historical aerial photographs were reviewed to evaluate past land use at the site and in the surrounding area. Aerial photographs covering 40 years were obtained through EDR. A summary of the aerial photographs reviewed is presented, as follows:

**TABLE 5-2
AERIAL PHOTOGRAPHS REVIEWED**

Date	Photo ID	Scale	Type	Source	Quality
1937	5918248.11	1 inch = 500 ft	Black and white, monoscopic	USDA	Good
1946	5918248.11	1 inch = 500 ft	Black and white, monoscopic	USGS	Good

TABLE 5-2 (Contiued)

1950	5918248.11	1 inch = 500 ft	Black and white, monoscopic	USDA	Good
1957	5918248.11	1 inch = 500 ft	Black and white, monoscopic	USDA	Good
1962	5918248.11	1 inch = 500 ft	Black and white, monoscopic	USGS	Fair
1967	5918248.11	1 inch = 500 ft	Black and white, monoscopic	USDA	Good
1973	5918248.11	1 inch = 500 ft	Black and white, monoscopic	USDA	Good
1979	5918248.11	1 inch = 500 ft	Black and white, monoscopic	USDA	Good
1984	5918248.11	1 inch = 500 ft	Color	USDA	Fair
1987	5918248.11	1 inch = 500 ft	Color	USGS	Good
1998	5918248.11	1 inch = 500 ft	Color	USDA	Good
2006	5918248.11	1 inch = 500 ft	Color	USDA	Good
2009	5918248.11	1 inch = 500 ft	Color	USDA	Good
2012	5918248.11	1 inch = 500 ft	Color	USDA	Good
2016	5918248.11	1 inch = 500 ft	Color	USDA	Good

Year: 1937

Photo I.D.: 5918248.11

Scale: 1 inch = 500 feet

Type: Black and White

Quality: Good

The subject site appears to be agricultural land. There appear to be seven residential structures located on the northeastern border of the site. A residence and out buildings are located on the northwestern portion of the site. A circular object and several structures are located in the east central portion of the site.

The surrounding properties appear to be residential and agricultural land.

Year: 1946

Photo I.D.: 5918248.11

Scale: 1 inch = 500 feet

Type: Black and White

Quality: Good

The subject site and adjacent properties are essentially unchanged from the 1937 aerial photograph. One of the large outbuildings is no longer present on the western portion of the site.

Year: 1950

Photo I.D.: 5918248.11

Scale: 1 inch = 500 feet

Type: Black and White

Quality: Good

The subject site and adjacent properties are essentially unchanged from the 1946 aerial photograph with the exception of the area around the circular structure appears to have been graded.

Year: 1957
Photo I.D.: 5918248.11
Scale: 1 inch = 500 feet
Type: Black and White
Quality: Good

The subject site and adjacent properties are essentially unchanged from the 1950 aerial photograph.

Year: 1962
Photo I.D.: 5918248.11
Scale: 1 inch = 500 feet
Type: Black and White
Quality: Fair

The subject site and adjacent properties are essentially unchanged from the 1957 aerial photograph.

Year: 1967
Photo I.D.: 5918248.11
Scale: 1 inch = 500 feet
Type: Black and White
Quality: Good

The subject site and adjacent properties are essentially unchanged from the 1962 aerial photograph.

Year: 1973
Photo I.D.: 5918248.11
Scale: 1 inch = 500 feet
Type: Black and White
Quality: Good

The subject site and adjacent properties are essentially unchanged from the 1967 aerial photograph with the exception of only five structures on the eastern border of the site.

Year: 1979
Photo I.D.: 5918248.11
Scale: 1 inch = 500 feet
Type: Black and White
Quality: Good

The subject site and adjacent properties are essentially unchanged from the 1973 aerial photograph with the exception of a basin in the center of the site.

Year: 1984
Photo I.D.: 5918248.11
Scale: 1 inch = 500 feet

Type: Color
Quality: Fair

The subject site and adjacent properties are essentially unchanged from the 1979 aerial photograph.

Year: 1987
Photo I.D.: 5918248.11
Scale: 1 inch = 500 feet
Type: Color
Quality: Good

The subject site and adjacent properties are essentially unchanged from the 1984 aerial photograph.

Year: 1998
Photo I.D.: 5918248.11
Scale: 1 inch = 500 feet
Type: Color
Quality: Good

The subject site and adjacent properties are essentially unchanged from the 1987 aerial photograph with the exception of only one structure remains in the northeast corner of the site.

Year: 2006
Photo I.D.: 5918248.11
Scale: 1 inch = 500 feet
Type: Color
Quality: Good

The subject site and adjacent properties are essentially unchanged from the 1998 aerial photograph.

Year: 2009
Photo I.D.: 5918248.11
Scale: 1 inch = 500 feet
Type: Color
Quality: Good

The subject site and adjacent properties are essentially unchanged from the 2006 aerial photograph with the exception of the northwestern structures are no longer present.

Year: 2012
Photo I.D.: 5918248.11
Scale: 1 inch = 500 feet
Type: Color
Quality: Good

The subject site and adjacent properties are essentially unchanged from the 2009 aerial photograph with the exception of the northeast structure is no longer present.

Year: 2016

Photo I.D.: 5918248.11

Scale: 1 inch = 500 feet

Type: Color

Quality: Good

The subject site and adjacent properties are essentially unchanged from the 2012 aerial photograph with the exception of the circular structure no longer being present on the site.

NOTE: Aerial photographs only provide information on indications of land use and no conclusions regarding the release of hazardous substances or petroleum products can be drawn from the review of photographs alone. The site boundaries were approximated during the early years, because physical features were not always readily apparent.

5.2 SANBORN FIRE INSURANCE MAPS

Sanborn Fire Insurance Maps provide historical land use information for some metropolitan and small established towns. PCE requested a search of Sanborn Fire Insurance Maps. Sanborn coverage was not found for the subject site.

5.3 POLK AND HAINES CRISS-CROSS DIRECTORIES

Polk and Haines Criss-Cross City Directories provide information regarding property occupants by address. These directories were reviewed by EDR, Inc. and are summarized in a report contained in Appendix D. The review was conducted in approximately 5-year increments. In summary the subject site was listed between the years 1962 and 2002 for the address 2121 S Willow Ave.

2002-1962 Ohanesian John

5.4 HISTORICAL TOPOGRAPHIC MAP REVIEW

PCE contacted EDR for information regarding historical topographic maps (7.5 Minute Series) from the *Historical Topographic Map Report* for the site and vicinity. The

topographic maps reviewed for this assessment are listed below. Copies of the topographic maps are included in Appendix B of this report.

1923

Malaga, CA Quad 7.5 Minute Series

Scale: 1 inch = 2,640 feet

The site and adjacent properties are depicted as vacant land. Approximately seven structures are depicted on the site. A railroad spur and a building labeled experimental farm is depicted on the site. The Southern Pacific Rail line is depicted bordering the site to the north. Peach Ave borders the site to the east and Willow Ave borders the site to the west.

1946

Malaga, CA Quad 7.5 Minute Series

Scale: 1 inch = 2,640 feet

The subject site is depicted as containing approximately nine structures. Seven structures are depicted along the northeastern border of the site, a structure in the northeast portion of the site and a structure in the east central portion of the site. Buildings depicted as US Experimental Station is depicted to the east of the site. The railroad spur and the large building are no longer depicted on the site.

1947

Malaga, CA Quad 7.5 Minute Series

Scale: 1 inch = 2,640 feet

The subject site and adjacent properties are essentially unchanged from the 1946 topographical map.

1948

Malaga, CA Quad 7.5 Minute Series

Scale: 1 inch = 2,640 feet

The subject site and adjacent properties are essentially unchanged from the 1947 topographical map.

1964

Malaga, CA Quad 7.5 Minute Series

Scale: 1 inch = 2,640 feet

The subject site and adjacent properties are essentially unchanged from the 1948 topographical map. The structure located in the east central portion of the site is no longer depicted on the site.

1972

Malaga, CA Quad 7.5 Minute Series

Scale: 1 inch = 2,640 feet

The subject site and adjacent properties are essentially unchanged from the 1964 topographical map. Two additional structures are depicted in the northwest portion of the site.

1981

Malaga, CA Quad 7.5 Minute Series

Scale: 1 inch = 2,640 feet

The subject site and adjacent properties are essentially unchanged from the 1972 topographical map.

2012

Fresno South, CA Quad 7.5 Minute Series

Scale: 1 inch = 2,640 feet

The subject site and adjacent properties are essentially unchanged from the 1965 topographical map with the exception of no structures being depicted on the site.

5.5 BUILDING PERMIT RECORD

The subject site was researched for building permits between the years 1990-2018. Permits were not found for the subject site.

5.6 PREVIOUS ASSESSMENTS

No previous assessments were provided.

6 SITE RECONNAISSANCE

6.1 METHODOLOGY AND LIMITING CONDITIONS

Mr. Ryan Brosius, Precision Civil Engineering, Inc. Staff Environmental Supervisor, performed a site reconnaissance on January 09, 2020 to assess and photograph present site conditions. The approximate site boundaries are shown on Plate 2, "Site Map," and color photographs of the site are presented on Plate 3-4 (Appendix A). The site conditions discussed below are limited to readily apparent environmental conditions observed.

6.2 GENERAL SITE SETTING

The subject site is approximately two lots totaling 76-acres (APN's: 481-020-01 & 47) located at 2121 S Willow Ave and 2122 S Peach Ave in Fresno, Fresno County, California.

APN 481-020-47 (2122 S Peach Ave) is a vacant/fallow field. A well head is located in the north central portion of the parcel. An unconnected power-pole is located in the east central portion of the parcel. Irrigation standpipes were noted on the northern and eastern borders of the parcel, and adjacent to the well head. A basin is located on the western border of the parcel. Debris piles were noted in the basin and along the railroad line to the north of the site. The debris consisted of household trash, railroad ties and concrete. Power lines are located along the eastern border of the parcel trending north/south along either side of Peach Ave.

APN 481-020-01 (2121 S Willow Ave) is a vacant/fallow field. Debris consisting of household trash, Stucco debris, and yard clippings was located in the northwestern portion of the site. Stand pipes are located trending east/west along the northern border of the site. Power-poles are located trending north/south along the western border of the site on either side of Willow Ave.

A railroad line is located to the north of the site beyond which is residential and agricultural. Residential homes are located to the south of the site. Residences and a fallow field are located to the east of the site. A residence and a fallow field are located to the west of the site.

6.3 SITE OBSERVATIONS

**TABLE 6-1
SITE OBSERVATIONS**

General Observations	Remarks	Observed	Not Observed
Current use	Vacant lot	X	
Current use likely to indicate RECs	None		X
Past use likely to indicate RECs	None		X
Past use	Residential and agricultural		X
Structures	None	X	
Terrain	Level	X	
Roads	S Peach Ave borders the site to the east and S Willow Ave borders the site to the west.	X	
Interior and exterior observations or environmental conditions that may involve the use, storage, disposal or generation of hazardous substances or petroleum products.		Observed	Not Observed
Above ground storage tank (AST)			X
Asbestos materials and lead-containing paint			X
Below grade vaults			X
Burned or buried debris			X
Chemical storage or agricultural chemical mixing areas			X
Discolored soil or water			X
Drains and piping	Irrigation standpipes are located thought-out the site.	X	
Drums			X
Electrical or hydraulic equipment (Polychlorinated biphenyls [pcbs])			X
Fill dirt from an unknown source			X
Hazardous chemical and petroleum products in connection with known use			X
Hazardous chemical and petroleum products in connection with unknown use			X
Hazardous waste storage			X
Heating and cooling system			X
Industrial waste treatment equipment			X
Loading and unloading areas			X
Non-hazardous containers with contents			X
Odors			X
Pits, ponds, or lagoons			X
Pools of liquid			X
Process waste water			X
Raw material storage or chemical storage areas			X
Sanitary system (sewer)			X
Septic system (tank and leach fields)	Previous residences may have had septic systems.		X

**TABLE 6-1 (Continued)
SITE OBSERVATIONS**

Interior and exterior observations or environmental conditions that may involve the use, storage, disposal, or generation of hazardous substances or petroleum products.		Observed	Not Observed
Soil piles			X
Solid waste/evidence of unauthorized dumping	Debris piles were noted throughout the site.	X	
Stained pavement or concrete			X
Stains or corrosion (interior)			X
Storm drains / catch basins	A basin is located on APN 481-020-47	X	
Stressed vegetation			X
Sumps & clarifiers			X
Surface water			X
Underground storage tank(s) (including heating oil tanks)			X
Unidentified substance containers			X
Waste water			X
Water supplies (potable and process)			X
Wells (irrigation, monitoring, or domestic)	A well head is located on APN 481-020-47	X	
Wells (dry)			X
Wells (oil and gas)			X

6.4 RESULTS OF SITE RECONNAISSANCE

Evidence of stressed vegetation, AST's, or pits were not observed at the subject site or adjacent properties during the site reconnaissance.

7 INTERVIEWS

Key site managers are contacted to obtain current and historical environmental information concerning the subject site. Local government officials were contacted to obtain further information about environmental enforcement actions pending or ongoing at the site and adjacent facilities, or relevant permits (e.g. air quality, well abandonment, etc.) for the site and adjacent facilities. Relevant information obtained is described in Section 4.3.

7.1 INTERVIEW WITH OWNER/MANAGER

The owner's were interviewed during the site visit.

Steve Ohanesian / Bob Ohanesian

Residences were located on the site. About 10 years ago the western residence burned down along Willow (2121 S Willow Ave). The residences along the eastern border were removed about 20 years ago (2122 S Peach Ave). According to the owners no farming has taken place since the 1970's. According to Mr. Ohanesian a brick factory was on the eastern parcel (APN481-020-47). Only a few concrete structures remained of this facility when the Ohanesian family first owned the property. They did not know of any other information about this facility. The property along Willow contained an aboveground diesel tank for farm equipment. The tank was removed at an unknown time in the past. The owners did not know of any underground tanks, buried debris, or bun areas on the site. Clean fill dirt was brought in during the onsite soil cleanup along Willow Ave and Peach Ave. They do not know of any hazardous materials and/or petroleum product releases or incidents onsite.

7.2 INTERVIEW WITH OCCUPANTS

The site did not contain any occupants

7.3 INTERVIEW WITH CLIENT/OTHERS

The Client was not interviewed.

8 EVALUATIONS

Precision Civil Engineering, Inc. performed this ESA of the subject site in conformance with the scope and limitations of ASTM Practice E1527-13. In summary, PCE's assessment revealed the following information about the subject site:

8.1 FINDINGS

The following sections describe PCE's findings and provide general background information about the site. Findings include RECs, historical RECs and notation of de minimus quantities, as applicable to the site.

8.1.1. Background Information

The subject site (APN's: 481-020-01 & 47) is composed of a vacant/fallow field.

The depth to groundwater was depicted at approximately 90 feet below ground surface and the estimated direction of groundwater flow is to the west.

According to the Soil Survey, onsite soil is listed as Hanford and Ramona. The soil is described as having moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Onsite Findings

- Ohanesian Property, located at 2122 S Peach Avenue appears on the CUPA Listings database with the RWQCB as the lead.
- Based on historical documentation and the owners interview the site contained structures as seen on the Aerial Photographs and depicted on the topographical maps before 1923 to 2012. Structures were located along the northeast border of the site and structures were located on the northwest portion of the site.
- A well head is located in the north central portion of APN 481-020-47.
- Irrigation standpipes were noted on the northern and eastern borders of the site, and adjacent to the well head.
- A basin is located on the western border of APN 481-020-47.

- Debris piles were noted in the basin and along the railroad line to the north of the site. The debris consisted of household trash, railroad ties and concrete. Debris consisting of household trash, stucco debris, and yard clippings was located in the northwestern portion of the site.

8.1.2. Off-Site Findings

- USDA Agricultural Research Service, located at 2221 South Peach Avenue adjacent to the east of the site appears on the CUPA Listings.
- Martin Dedekian, located at 2178 S Willow Avenue adjacent to the west of the site appears on the SWEEPS UST, HIST UST, CA FID UST and HIST UST databases.
- Fruit Genetics and Breeding Research (USDA ARS, USDA Agricultural Research), located at 2021 S Peach Avenue approximately 500 feet to the northeast of the site appears on the HIST UST, FINDS, ECHO, CUPA Listings, LUST, HIST Cortese, CERS, SWEEPS UST and CA FID UST databases.

8.2 CONCLUSIONS AND RECOMMENDATIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13 of the approximately 5.97-acre site.

In summary, this assessment has revealed no evidence of recognized environmental conditions in connection with the property subject site except the following:

- Ohanesian Property, located at 2122 S Peach Avenue appears on the CUPA Listings database with the RWQCB as the lead. During 2015, a voluntary soil removal was performed at the site during the demolition of an onsite structure. According to Bob and Steve Ohanesian the sites owners the structure was part a brick factory that was located on the site. No other information was found as to what the facility was. The 1923 topographical map shows a large structure and a railroad spur in this location but by the 1936 aerial photograph this structure is no longer present. All that remained of this facility is a circular structure as seen in the historical photographs until it was removed in 2015. According to the included reports the soil in this area contained a "tar-like" substance that was removed from the site. Laboratory analyses indicated the substance to be a petroleum material consistent with an asphalt-like material. The subsurface soils beneath the site 15 feet and below did not show detectable concentrations of petroleum products. Based on the results of the investigations it appeared the extent of the asphalt-like material in soil is limited. The origin of the asphalt-like material appeared to be

from the removed circular concrete structure. Findings reported the majority of the impacted soils have been removed to 10-foot bgs and based on the depth to ground water (approximately 90 feet) impacts to the groundwater are unlikely. Findings were submitted to the California Regional Water Quality Control Board (RWQCB). The RWQCB issued a letter stating, "no further assessment or remediation is required for this site,". Based on these findings PCE does not recommend any further assessments, monitoring or clean-up as it relates to the former structures.

- In 2018 the site located at 2121 S Willow Ave (in the area of the former onsite residence) had the following incident. Pacific Gas & Electric (PG&E) hired contractors to perform horizontal borings near the property. One of the contractors dumped drilling spoils on the site without permission. PG&E hired a testing lab to test the soils and characterize them for disposal. The soil was removed and clean fill was brought back onto the property in place of the removed soils. Based on the laboratory analytical results, the drilling spoils were within the Tier 2 Environmental Screening Levels for a residential development, with the exception of one sample that exceeded the level for TPHd. TPHd degrades over time when exposed to the atmosphere. Since the drilling spoils were removed and clean fill was brought in, there is no reason to expect that the underlying soils would have been impacted. Based on these findings PCE does not recommend any further assessments, monitoring or clean-up as it relates to the drilling spoils dumped onsite.
- Based on historical documentation and the owners interview the site contained structures as seen on the Aerial Photographs and depicted on the topographical maps before 1923 to 2012. Structures were located along the northeast border of the site and structures were located on the northwest portion of the site. Subsurface exploration is not a part of a typical Phase I Environmental Site Assessment scope of work. It is unknown if there were additional subsurface structures (i.e., septic systems, water wells) associated with former onsite structures. In the event that any subsurface structures are encountered during site development or excavation onsite, they should be removed, handled, transported, and disposed of in accordance with applicable local, state, and federal laws and regulations. Additionally, if suspect materials are encountered, the signatories of this report should be notified.
- A well head is located in the north central portion of APN 481-020-47. If the well is intended for future use, it should be tested for suitability. If the well is to be removed, PCE recommends that the wells be abandoned in accordance with local, state and federal regulations.
- Irrigation standpipes were noted on the northern and eastern borders of the site, and adjacent to the well head. On properties with a history of agricultural use, underground pipelines may exist. It was common for said pipelines to contain asbestos (e.g. Transite pipe). Subsurface exploration is not part of a typical Phase

I Environmental Site Assessment scope of work. In the event that any subsurface structures are encountered during site development or excavation on site, care should be exercised in determining whether or not the subsurface structures contain asbestos. If they contain asbestos, they should be removed, handled, transported and disposed of in accordance with local, state and federal laws and regulations. Additionally, if suspect materials are encountered, the signatories of this report should be notified.

- A basin is located on the western border of APN 481-020-47. The basin was noted as first appearing in the 1979 aerial photograph. No staining, evidence of leakage, stressed vegetation, or odors was associated with the basin and is not currently expected to have an adverse impact on the site.
- Debris piles were noted in the basin and along the railroad line to the north of the site. The debris consisted of household trash, railroad ties and concrete. Debris consisting of household trash. Stucco debris, and yard clippings was located in the northwestern portion of the site. There did not appear to be any hazardous substances or petroleum products associated with the debris. No hazardous materials, staining, leakage, odors or stressed vegetation were associated with the debris piles and are not currently expected to have an adverse impact on the site.
- There are three off-site facilities listed within the ASTM regulatory agency databases researched by EDR. Based on the databases listed, limited extent of the releases and distance from the site, the following three locations are not expected to have an adverse impact on the subject site: USDA Agricultural Research Service, located at 2221 South Peach Avenue adjacent to the east of the site, Martin Dedekian, located at 2178 S Willow Avenue adjacent to the west of the site, Fruit Genetics and Breeding Research (USDA ARS, USDA Agricultural Research), located at 2021 S Peach Avenue approximately 500 feet to the northeast of the site.

8.3 DATA FAILURE

Although PCE attempted to obtain reasonably ascertainable information regarding the site, some information was either not received or not readily available at the time of this report. Therefore, consistent with ASTM E 1527-13, the following data failure (date gaps) has been identified:

- PCE contacted the Fresno County Office of Emergency Services. Responses from this agency were not received prior to production of this report. If a response from this agency changes our conclusions or recommendations, we will notify the client.

No other “non-scope” considerations, such as asbestos-containing materials, radon, lead-based paint, lead in drinking water, wetlands, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality and high voltage power lines were considered for this report.

9 REFERENCES

Environmental Data Resources (EDR), 2019, The EDR Radius Map with GeoCheck®, Wollow & Peach, 2121 S Willow Ave & 2122 S Peach Ave, Fresno, Ca 93725, Inquiry Number: 5918248.2s, December 27, 2019.

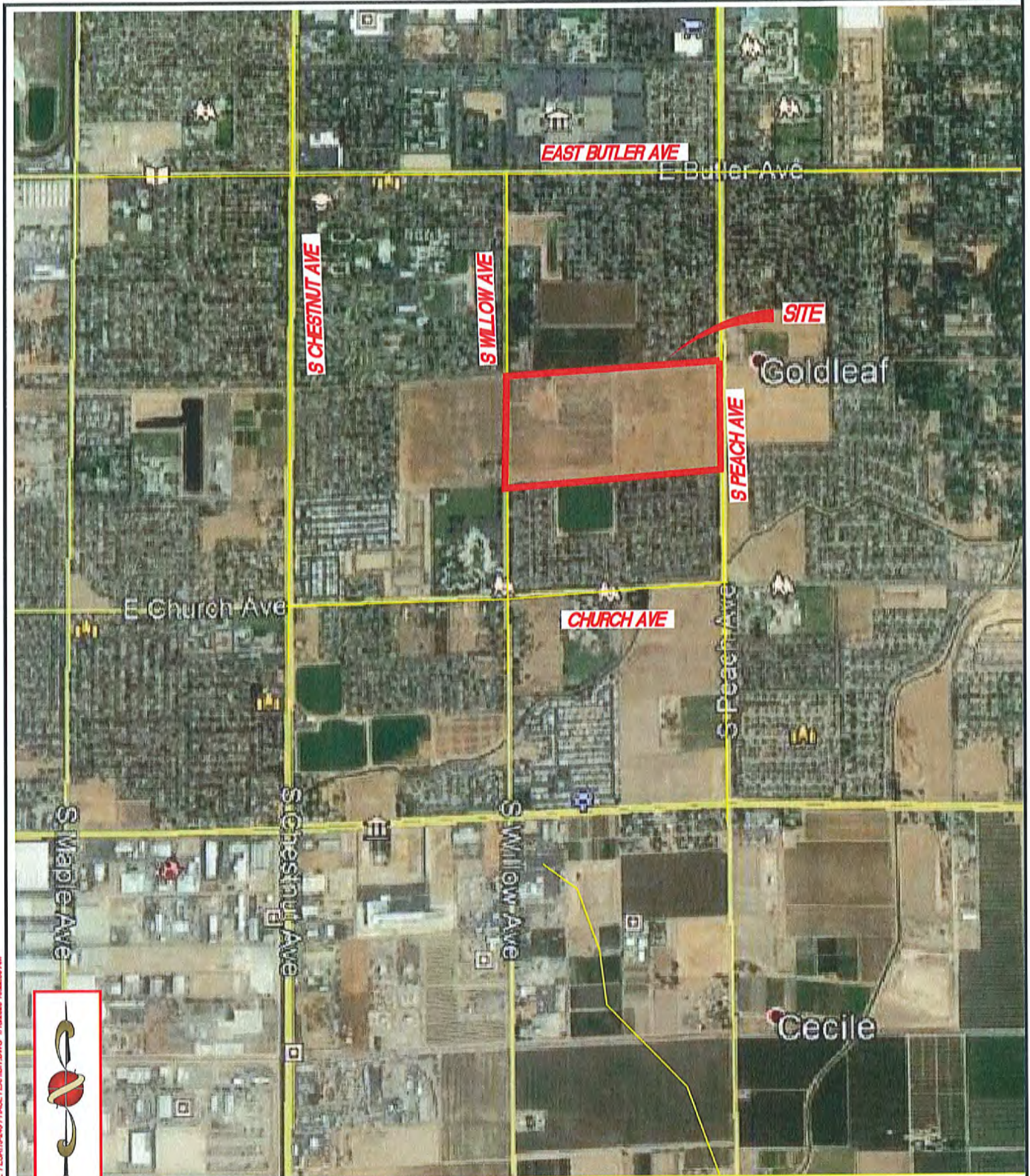
Geologic Map of California, State of California Department of Conservation 1977; (Scale: 1 inch = 12 miles).

United States Geologic Survey (USGS), 7 ½ -Minute Series (Topographic) Fresno South Quadrangle Map, dated 2012.

Additional sources may be referenced separately in the report text.

APPENDIX A

PLATES



PROJECT: 3D PROJECTS/2019/09-249/REPORTS/PHASE 1/EXHIBIT.DWG / 1/13/2020 10:22:50 AM



EXHIBIT

DESCRIPTION:
SITE VICINITY MAP

PROJECT NAME:
WILLOW AND PEACH AVE

1-9-2020	19-249
----------	--------

PLATE 1

P:\CIVIL_3D_PROJECTS\2018\18-04\REPORTS\PHASE 1\ES&IS-548 PHASE 1 EXHIBIT.DWG 1/13/2020 11:12:28 AM



LEGEND

-  SITE
-  IRRIGATION STANDPIPES
-  DOMESTIC/IRRIGATION WELL
-  POWER-POLES
-  ONSITE DEBRIS



EXHIBIT
DESCRIPTION: SITE MAP

PROJECT NAME: WILLOW AND PEACH AVE	
1/9/2020	19-249

PLATE 2



LOOKING WEST FROM THE SOUTHEAST CORNER OF THE SITE.



LOOKING NORTH FROM THE SOUTHEAST CORNER OF THE SITE.



LOOKING EAST FROM THE NORTHWEST CORNER OF THE SITE.



LOOKING EAST FROM THE SOUTHWEST CORNER OF THE SITE.



LOOKING SOUTH FROM THE NORTHEAST CORNER OF THE SITE.



TRASH DEBRIS LOCATED IN THE WESTERN PORTION OF THE SITE.

PROJECT NO. PROJECTS201919-049-REPORTS/PHASE 1 / EXHIBIT 2.DWG / 1/13/2020 11:50:59 AM



EXHIBIT
DESCRIPTION:
SITE PHOTOGRAPHS

PROJECT NAME:

WILLOW AND PEACH AVE

1-9-2020

19-249

PLATE 3



WELL HEAD AND STANDPIPE LOCATED IN THE EASTERN PORTION OF THE SITE.



BASIN LOCATED IN THE CENTER OF THE SITE.



TYPICAL STANDPIPE LOCATED ON THE NORTHERN BORDER OF THE SITE.



LOOKING SOUTH FROM THE NORTHWESTERN BORDER OF THE SITE.

P:\CIVIL 3D PROJECTS\191919-19-19-19-19 PHASE 1 / EXHIBIT.DWG 1/13/2020 11:47:16 AM



EXHIBIT
 DESCRIPTION:
SITE PHOTOGRAPHS

PROJECT NAME:

WILLOW AND PEACH AVE

1-9-2020

19-249

PLATE 4

APPENDIX B

HISTORICAL RESEARCH DOCUMENTATION

Willow & Peach

2121 S Willow Ave & 2122 S Peach Ave
Fresno, CA 93725

Inquiry Number: 5918248.6
December 27, 2019

The EDR Property Tax Map Report



6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

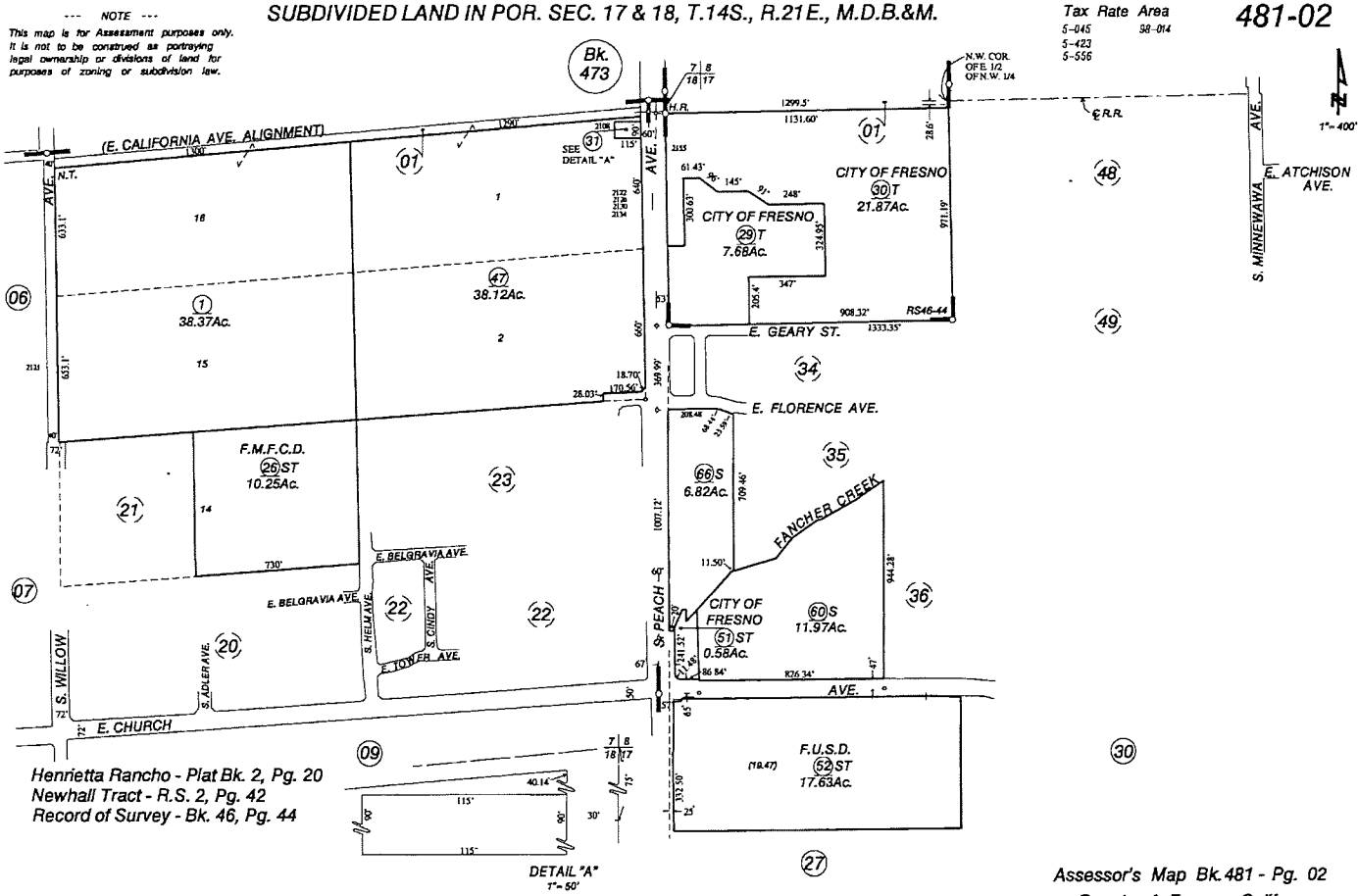
Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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Hennietta Rancho - Plat Bk. 2, Pg. 20
Newhall Tract - R.S. 2, Pg. 42
Record of Survey - Bk. 46, Pg. 44

9-5-13

NOTE - Assessor's Block Numbers Shown in Ellipses.
Assessor's Parcel Numbers Shown in Circles.

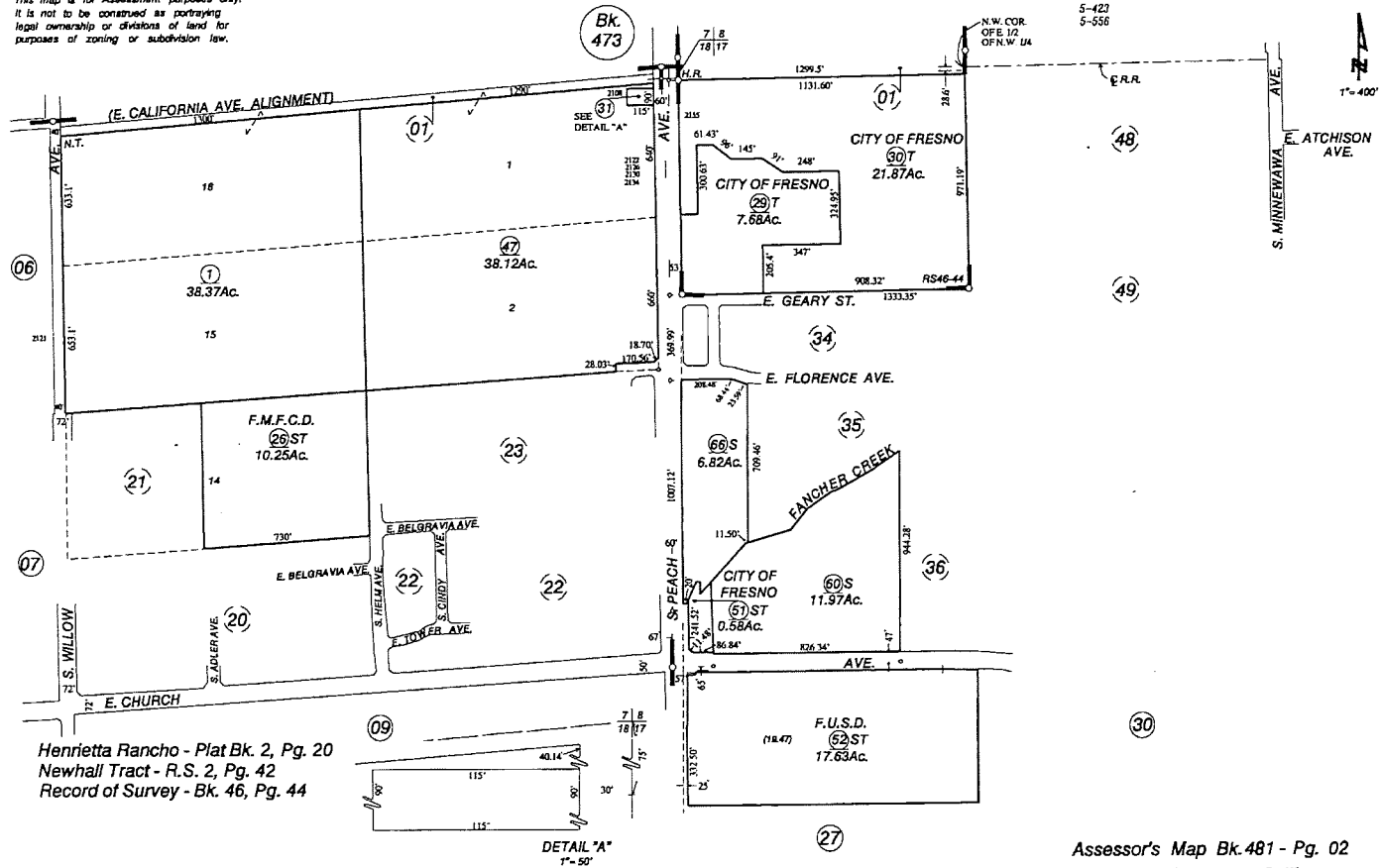
Assessor's Map Bk. 481 - Pg. 02
County of Fresno, Calif.

--- NOTE ---
This map is for Assessment purposes only.
It is not to be construed as portraying
legal ownership or divisions of land for
purposes of zoning or subdivision law.

SUBDIVIDED LAND IN POR. SEC. 17 & 18, T.14S., R.21E., M.D.B.&M.

Tax Rate Area
5-045 98-014
5-427
5-558

481-02



Henrietta Rancho - Plat Bk. 2, Pg. 20
Newhall Tract - R.S. 2, Pg. 42
Record of Survey - Bk. 46, Pg. 44

DETAIL "A"
1" = 50'

Assessor's Map Bk. 481 - Pg. 02
County of Fresno, Calif.

NOTE - Assessor's Block Numbers Shown In Ellipses.
Assessor's Parcel Numbers Shown In Circles.

Willow & Peach

2121 S Willow Ave & 2122 S Peach Ave
Fresno, CA 93725

Inquiry Number: 5918248.11

December 27, 2019

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

12/27/19

Site Name:

Willow & Peach
2121 S Willow Ave & 2122 S P
Fresno, CA 93725
EDR Inquiry # 5918248.11

Client Name:

Precision Civil Engineering
1234 O Street
Fresno, CA 93721-1830
Contact: Ryan Brosius



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Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1998	1"=500'	Acquisition Date: August 17, 1998	USGS/DOQQ
1987	1"=500'	Flight Date: June 17, 1987	USDA
1984	1"=500'	Flight Date: June 09, 1984	USDA
1979	1"=500'	Flight Date: September 04, 1979	USDA
1973	1"=500'	Flight Date: May 08, 1973	USDA
1967	1"=500'	Flight Date: May 02, 1967	USDA
1962	1"=500'	Flight Date: August 09, 1962	USGS
1957	1"=500'	Flight Date: August 09, 1957	USDA
1950	1"=500'	Flight Date: January 31, 1950	USDA
1946	1"=500'	Flight Date: April 22, 1946	USGS
1937	1"=500'	Flight Date: November 04, 1937	USDA

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INQUIRY #: 5918246.11

YEAR: 2016

— = 500'





INQUIRY #: 5916249.11

YEAR: 2012

— = 500'





INQUIRY #: 5916249.11

YEAR: 2009

— = 500'



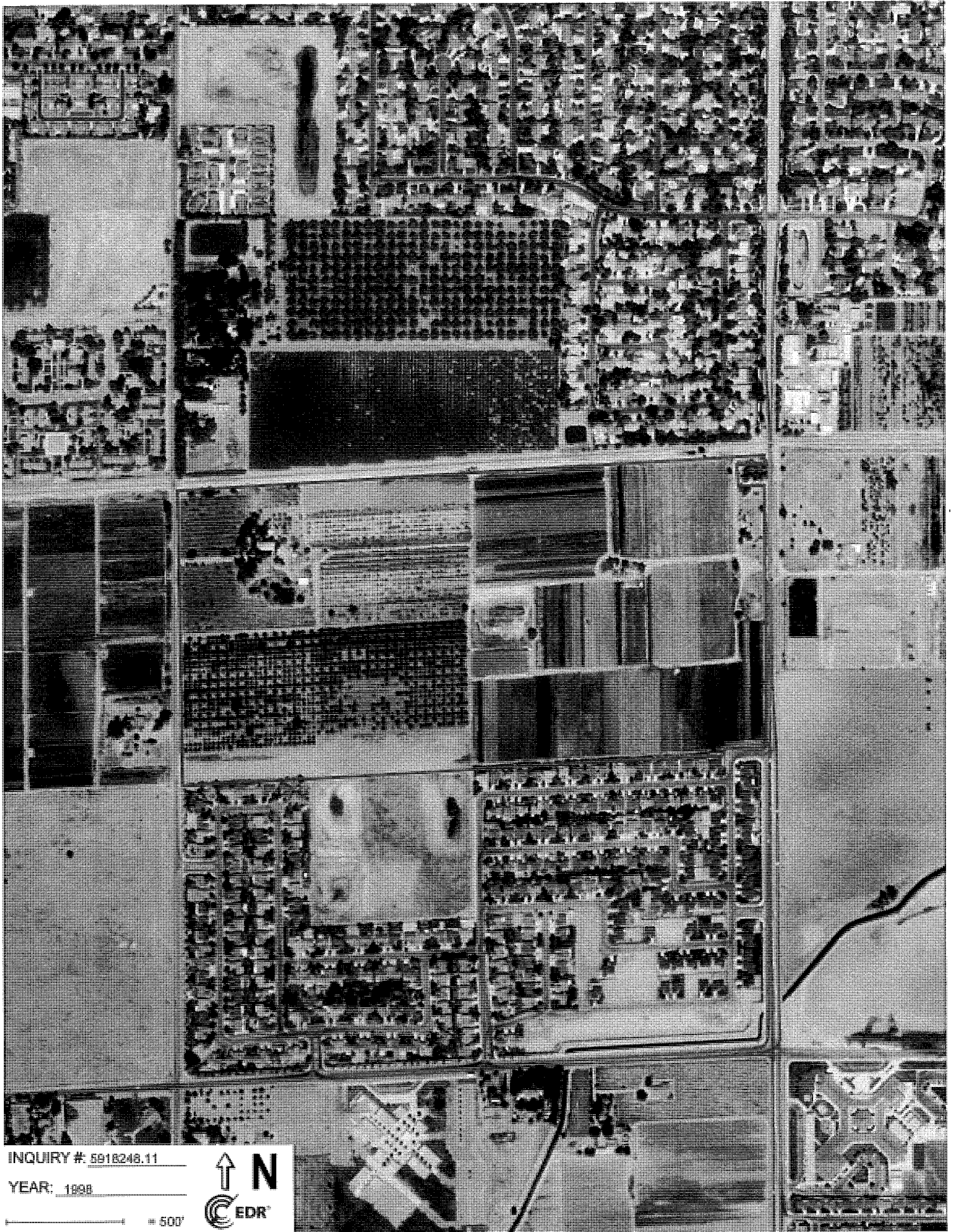


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YEAR: 2006

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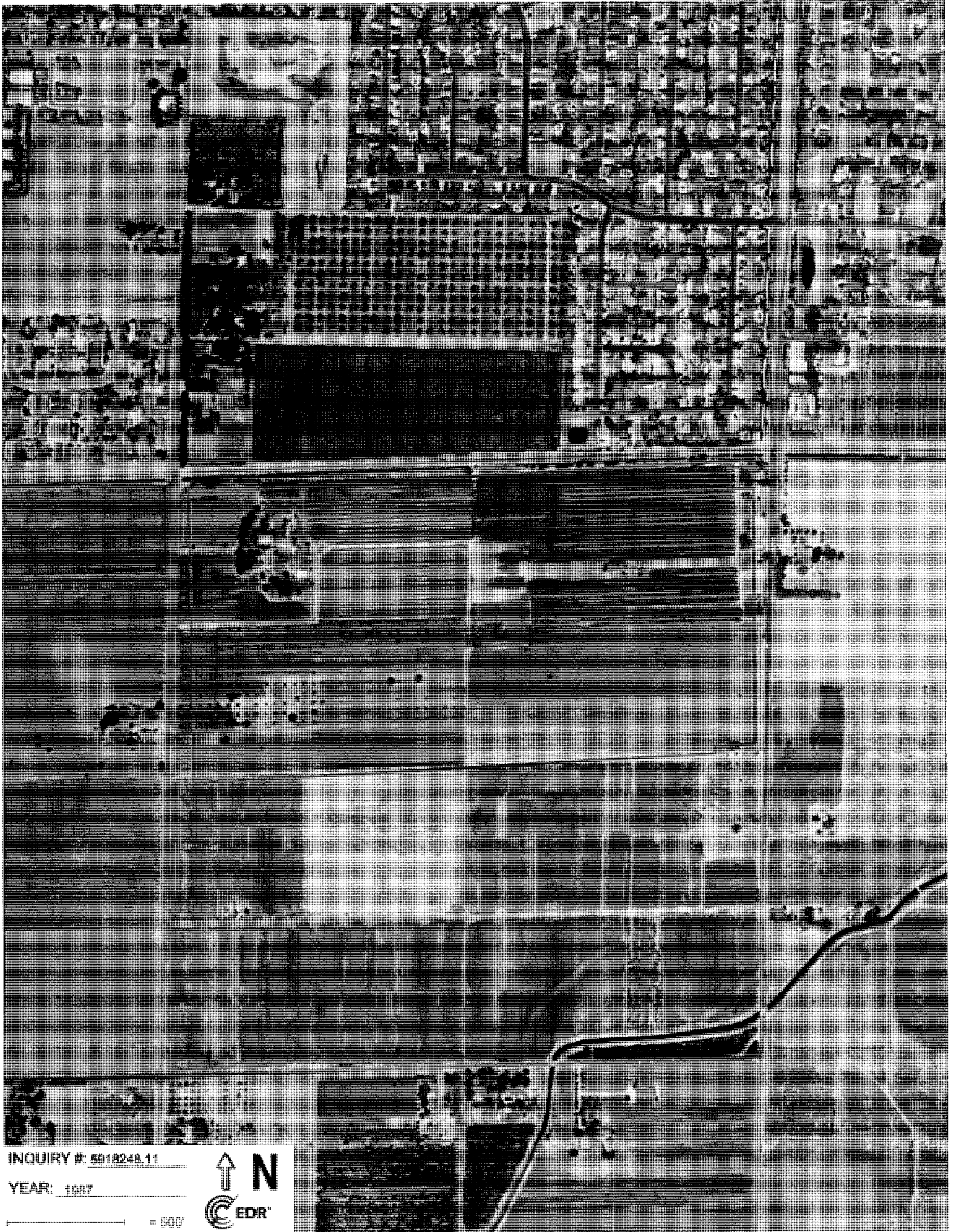


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YEAR: 1987

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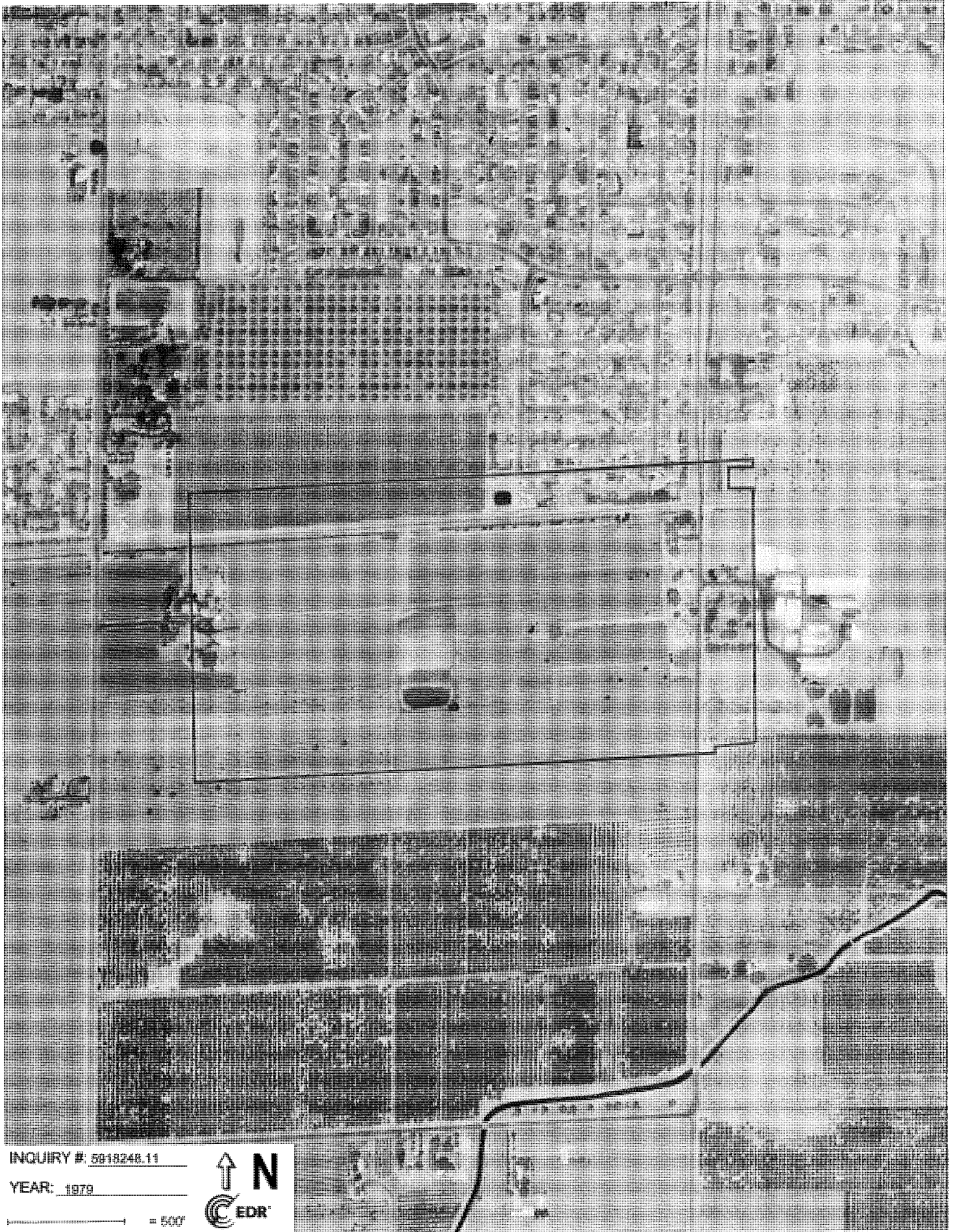


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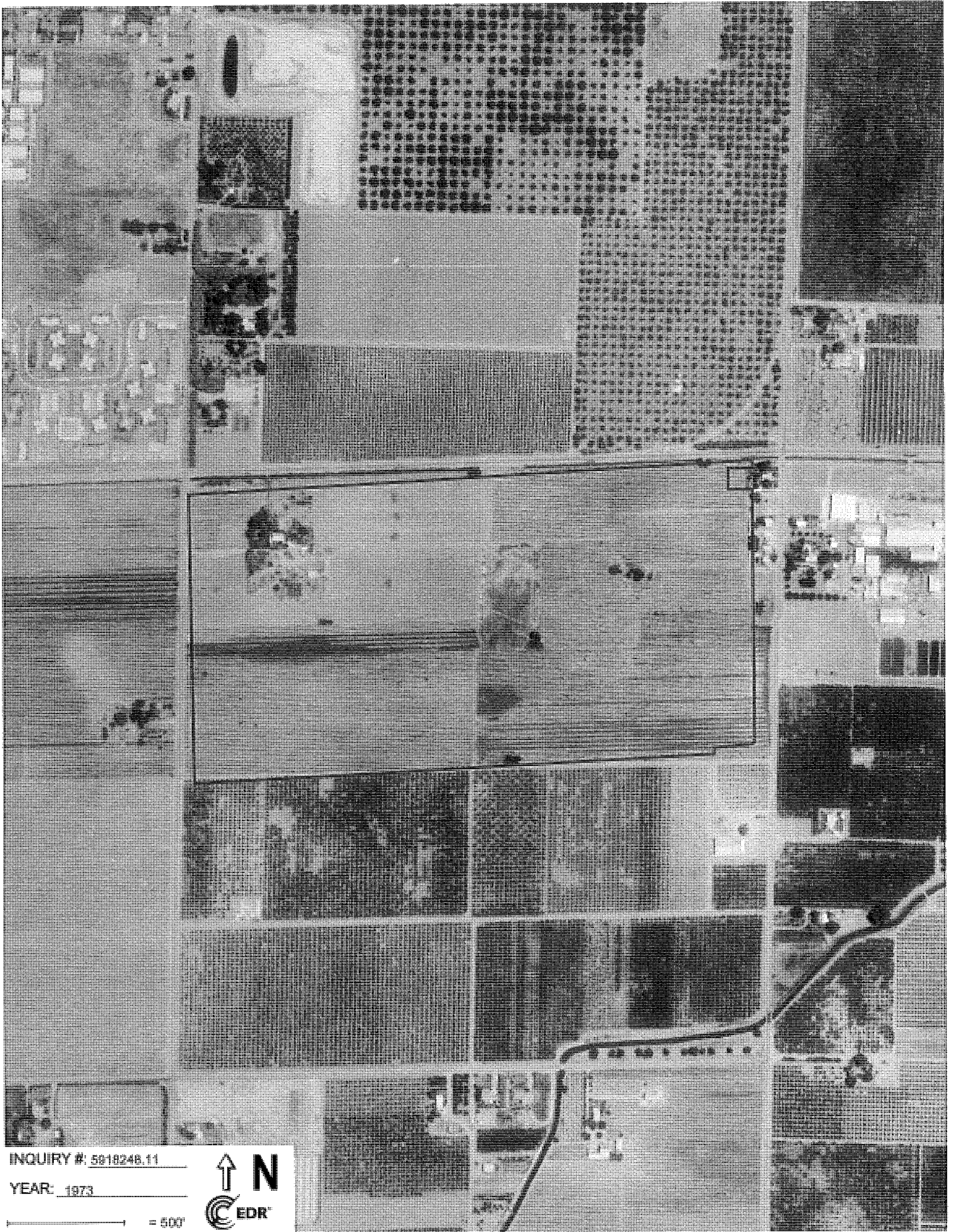


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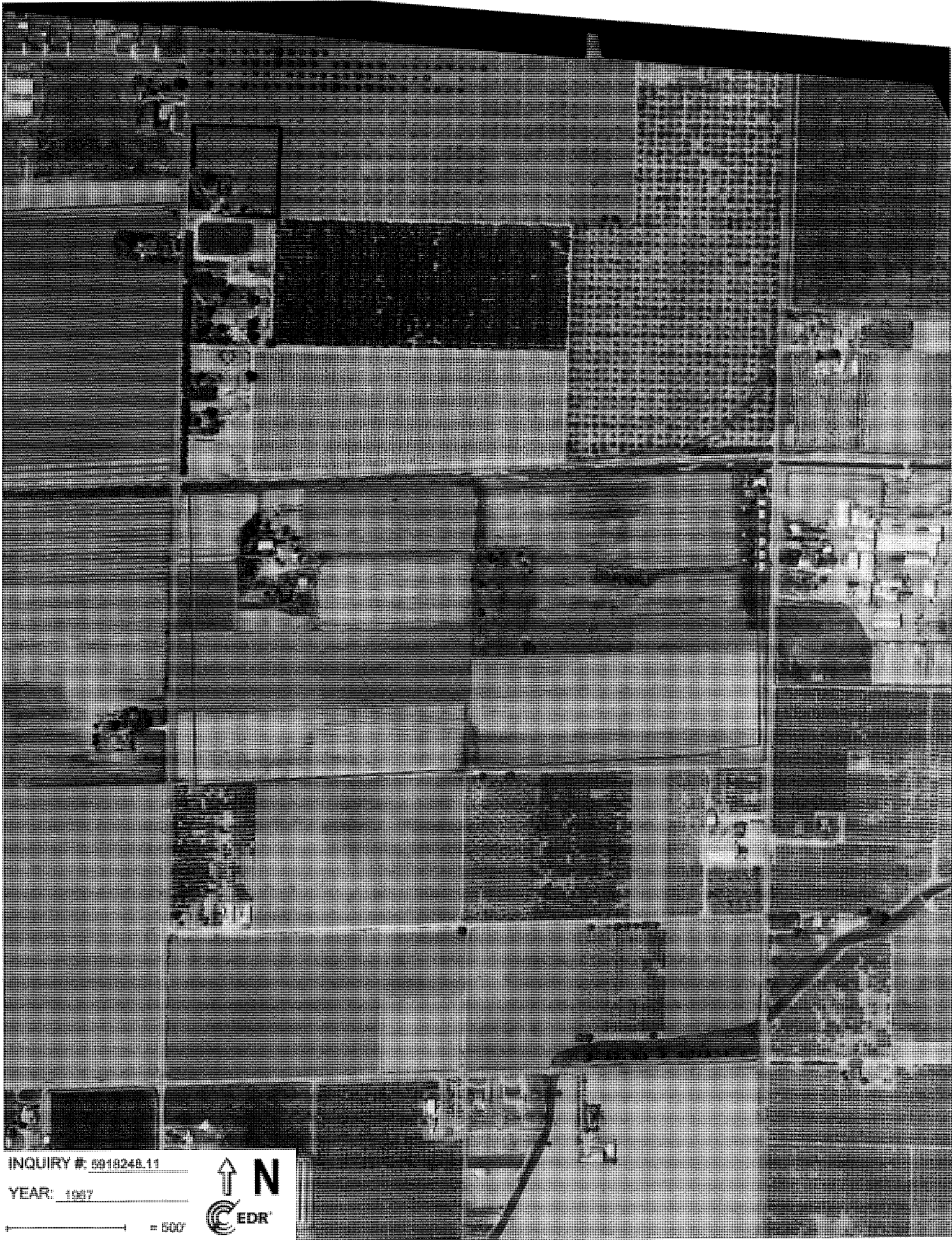


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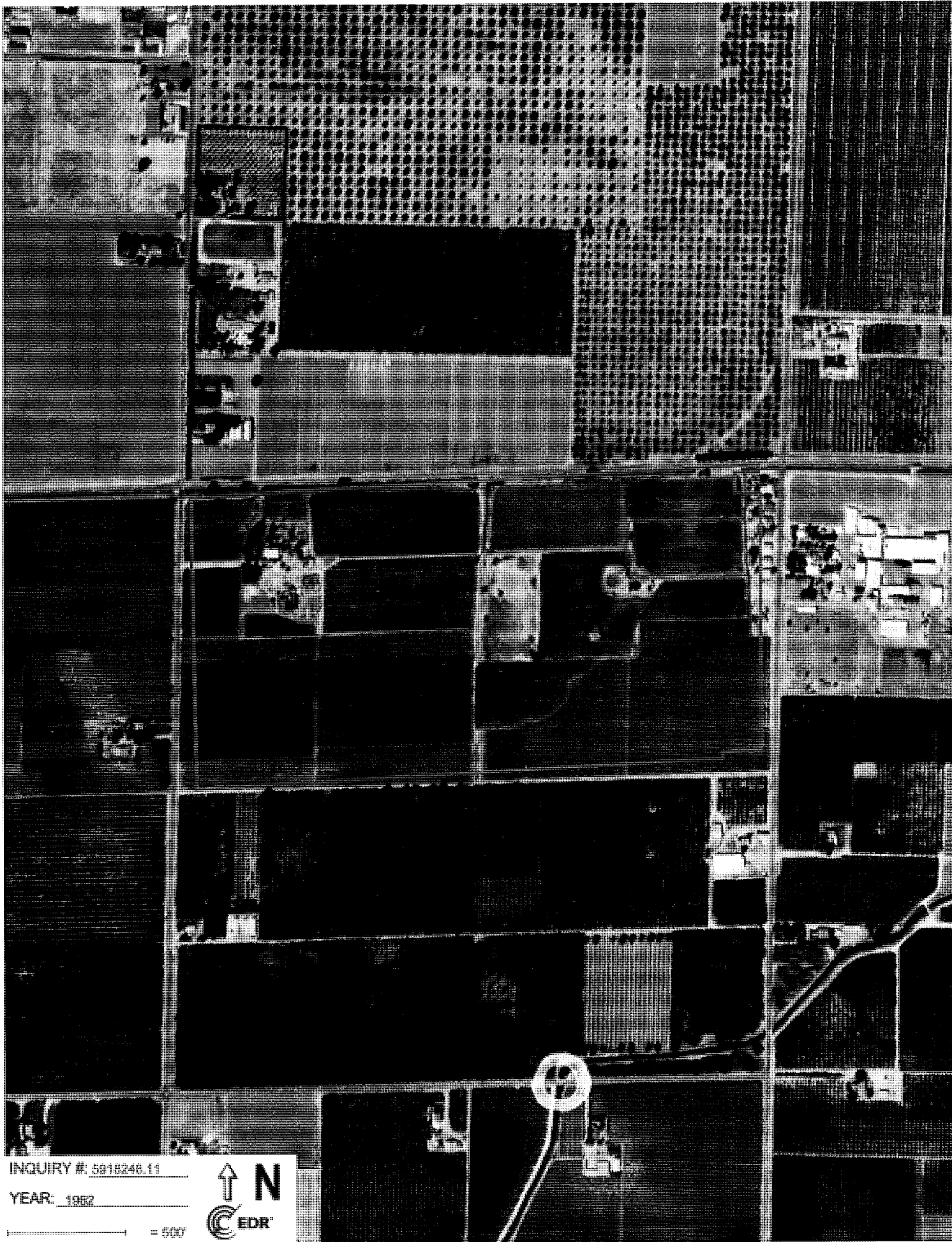


INQUIRY #: 5918248.11

YEAR: 1987

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INQUIRY #: 5918246.11

YEAR: 1952

————— = 500'





INQUIRY # 5918246.11

YEAR: 1957

— = 500'





INQUIRY #: 5918246.11

YEAR: 1950

— = 500'



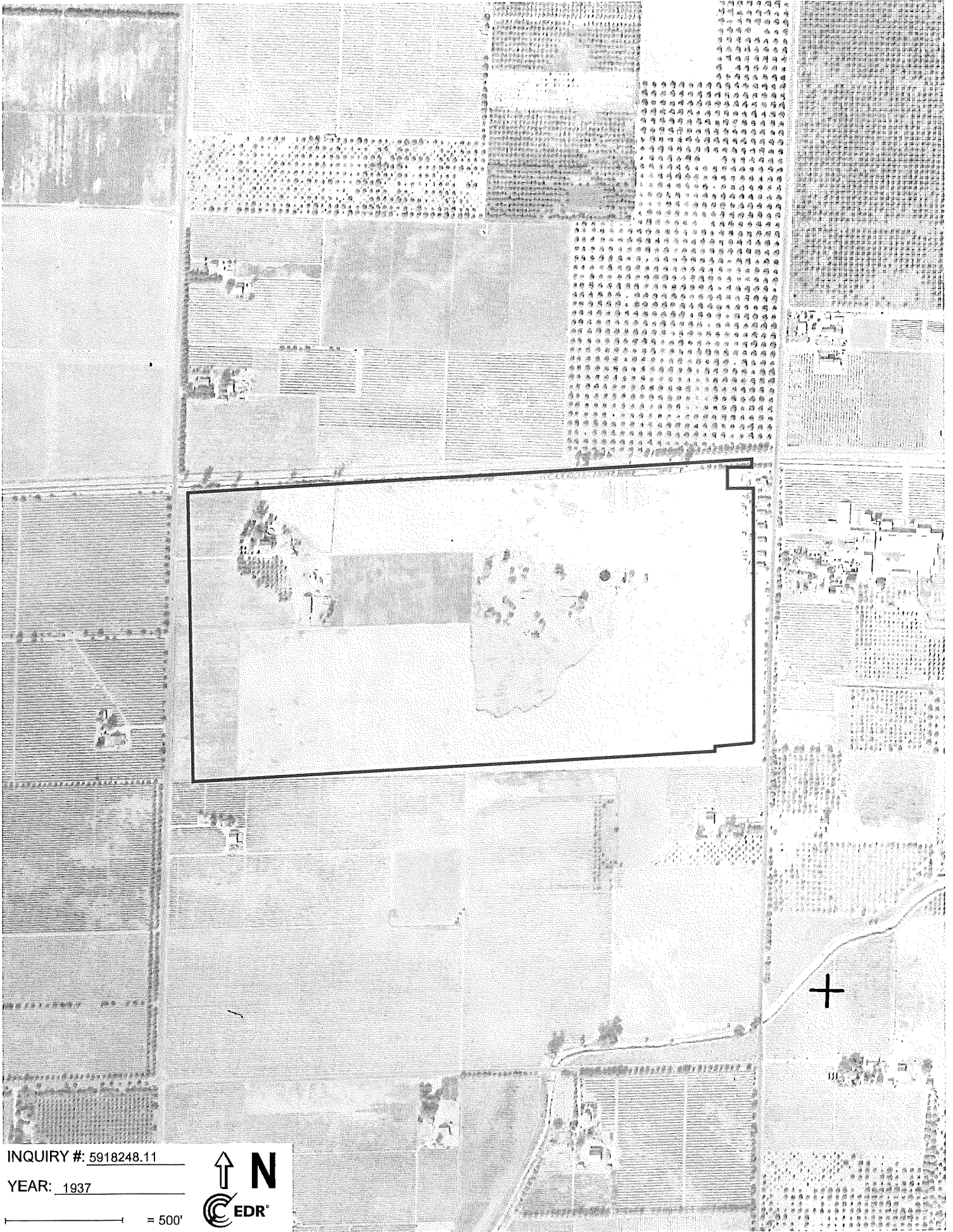


INQUIRY #: 5818248.11

YEAR: 1948

— = 500'





INQUIRY #: 5918248.11

YEAR: 1937

— = 500'



Willow & Peach

2121 S Willow Ave & 2122 S Peach Ave

Fresno, CA 93725

Inquiry Number: 5918248.3

December 27, 2019

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edmet.com

Certified Sanborn® Map Report

12/27/19

Site Name:

Willow & Peach
2121 S Willow Ave & 2122 S P
Fresno, CA 93725
EDR Inquiry # 5918248.3

Client Name:

Precision Civil Engineering
1234 O Street
Fresno, CA 93721-1830
Contact: Ryan Brosius



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Certified Sanborn Results:

Certification # F039-4961-A15E
PO # NA
Project WILLOW AND PEACH

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: F039-4961-A15E

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- University Publications of America
- EDR Private Collection

The Sanborn Library LLC Since 1866™

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Willow & Peach

2121 S Willow Ave & 2122 S Peach Ave
Fresno, CA 93725

Inquiry Number: 5918248.5
December 27, 2019

The EDR-City Directory Abstract



6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1922 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2014	EDR Digital Archive	-	-	-	-
2010	EDR Digital Archive	-	-	-	-
2005	EDR Digital Archive	-	-	-	-
2002	R.L. Polk & Co Publishers	-	-	X	-
	R.L. Polk & Co Publishers	X	-	X	-
1996	R.L. Polk & Co Publishers	-	-	X	-
	R.L. Polk & Co Publishers	X	-	X	-
1990	R.L. Polk & Co Publishers	-	-	X	-
	R.L. Polk & Co Publishers	X	-	X	-
1986	R.L. Polk & Co Publishers	-	-	X	-
	R.L. Polk & Co Publishers	X	-	X	-
1980	R.L. Polk & Co Publishers	-	-	X	-

EXECUTIVE SUMMARY

<u>Year</u>	<u>Source</u>	<u>IP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
1980	R.L. Polk & Co Publishers	X	-	X	-
1975	R.L. Polk & Co Publishers	-	-	X	-
	R.L. Polk & Co Publishers	X	-	X	-
1970	R.L. Polk & Co Publisher	-	-	X	-
	R.L. Polk & Co Publisher	X	-	X	-
1965	R.L. Polk & Co Publisher	-	-	X	-
	R.L. Polk & Co Publisher	X	-	X	-
1962	Pacific Telephone	-	-	X	-
	Pacific Telephone	X	-	X	-
1958	R.L. Polk & Co Publishers	-	-	-	-
1952	R.L. Polk & Co Publishers	-	-	-	-
1947	R.L. Polk & Co Publishers	-	-	-	-
1942	R.L. Polk & Co Publishers	-	-	-	-
1937	R.L. Polk & Co Publishers	-	-	-	-
1932	R.L. Polk & Co Publishers	-	-	-	-
1927	R.L. Polk & Co Publishers	-	-	-	-
1922	Polk: Husted Directory Co.	-	-	-	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

<u>Address</u>	<u>Type</u>	<u>Findings</u>
2122 S PEACH AVE	Client Entered	
2121 S WILLOW AVE	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

2121 S Willow Ave & 2122 S Peach Ave
Fresno, CA 93725

FINDINGS DETAIL

Target Property research detail.

S PEACH AVE

2122 S PEACH AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
-------------	-------------	---------------

S WILLOW AVE

2121 S WILLOW AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	Ohanesian John S El+ A	R.L. Polk & Co Publishers
1996	Ohanesian John	R.L. Polk & Co Publishers
1990	Ohanesian John	R.L. Polk & Co Publishers
1986	Ohanesian John	R.L. Polk & Co Publishers
1980	Ohanesian John	R.L. Polk & Co Publishers
1975	Ohanesian John	R.L. Polk & Co Publishers
1970	Ohanesian John	R.L. Polk & Co Publisher
1965	OHANESIAN EL IZ MOS	R.L. Polk & Co Publisher
1962	Ohanesian John 0 CL	Pacific Telephone

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

No Addresses Found

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched

2121 S Willow Ave & 2122 S
Peach Ave

Address Not Identified in Research Source

2014, 2010, 2005, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922

Willow & Peach

2121 S Willow Ave & 2122 S Peach Ave

Fresno, CA 93725

Inquiry Number: 5918248.4

December 27, 2019

EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

12/27/19

Site Name:

Willow & Peach
2121 S Willow Ave & 2122 S P
Fresno, CA 93725
EDR Inquiry # 5918248.4

Client Name:

Precision Civil Engineering
1234 O Street
Fresno, CA 93721-1830
Contact: Ryan Brosius



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Precision Civil Engineering were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

Coordinates:

P.O.#	NA	Latitude:	36.720174 36° 43' 13" North
Project:	WILLOW AND PEACH	Longitude:	-119.72288 -119° 43' 22" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	256817.62
		UTM Y Meters:	4067287.55
		Elevation:	307.00' above sea level

Maps Provided:

- 2012
- 1981
- 1972
- 1964
- 1948
- 1947
- 1946
- 1923

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Topo Sheet Key

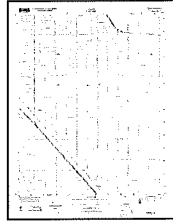
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



Fresno South

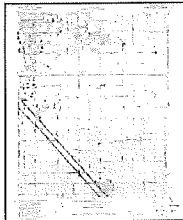
7.5-minute, 24000



Malaga

7.5-minute, 24000

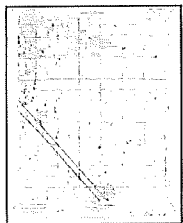
1981 Source Sheets



Malaga

7.5-minute, 24000
Aerial Photo Revised 1978

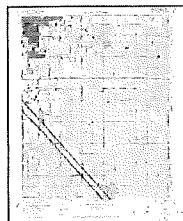
1972 Source Sheets



Malaga

7.5-minute, 24000
Aerial Photo Revised 1972

1964 Source Sheets



Malaga

7.5-minute, 24000
Aerial Photo Revised 1962

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

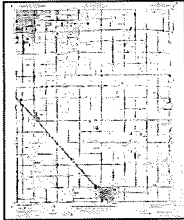
1948 Source Sheets



MALAGA

7.5-minute, 25000

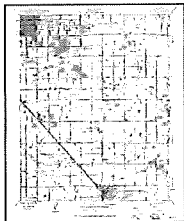
1947 Source Sheets



Malaga

7.5-minute, 24000

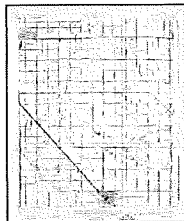
1946 Source Sheets



Malaga

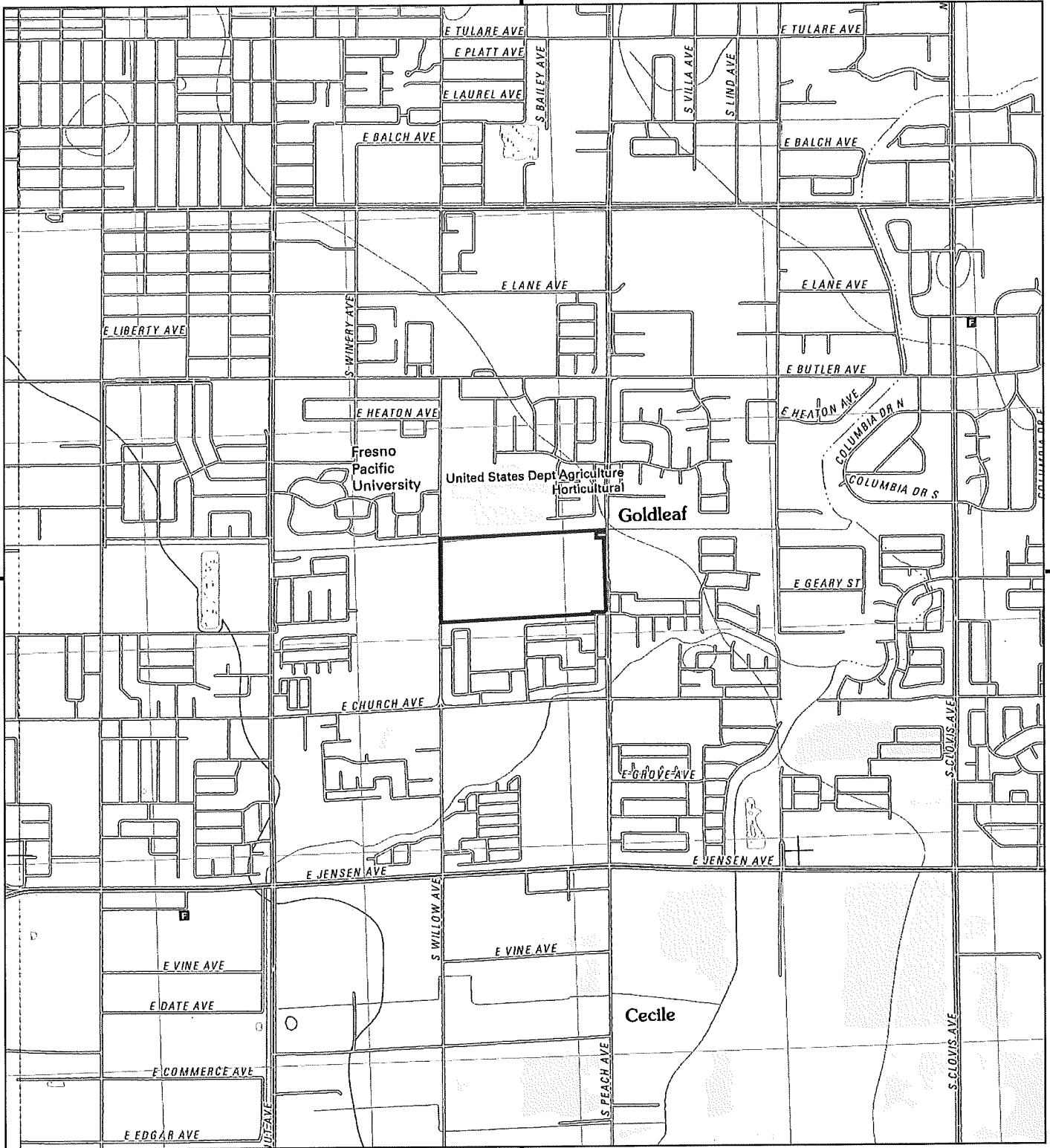
7.5-minute, 24000

1923 Source Sheets

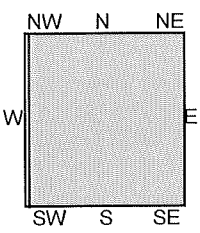
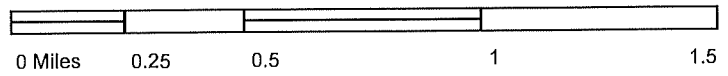


Malaga

7.5-minute, 31680



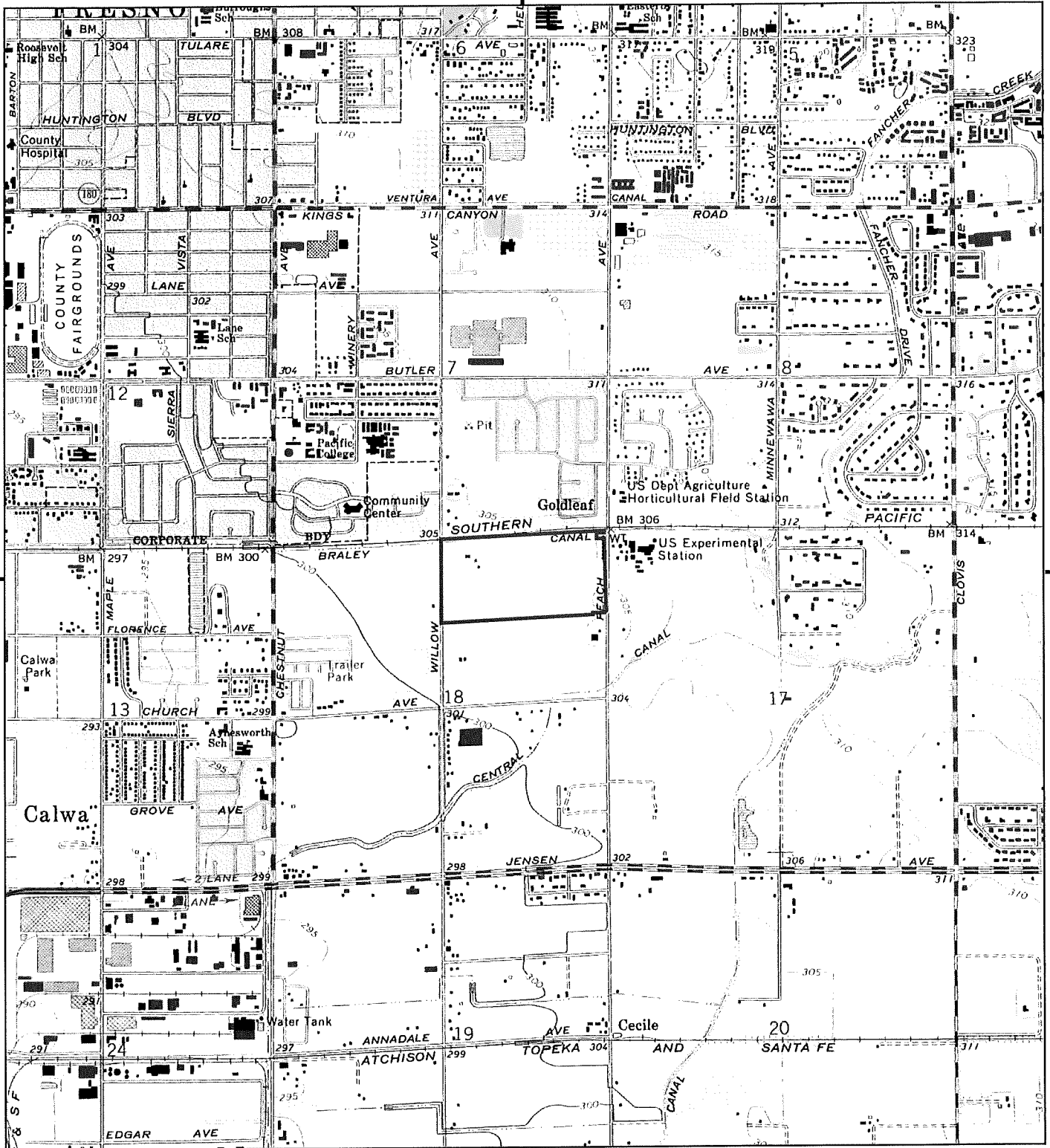
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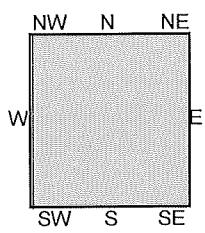
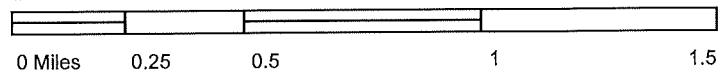
TP, Malaga, 2012, 7.5-minute
 SW, Fresno South, 2012, 7.5-minute

SITE NAME: Willow & Peach
 ADDRESS: 2121 S Willow Ave & 2122 S Peach Ave
 Fresno, CA 93725
 CLIENT: Precision Civil Engineering





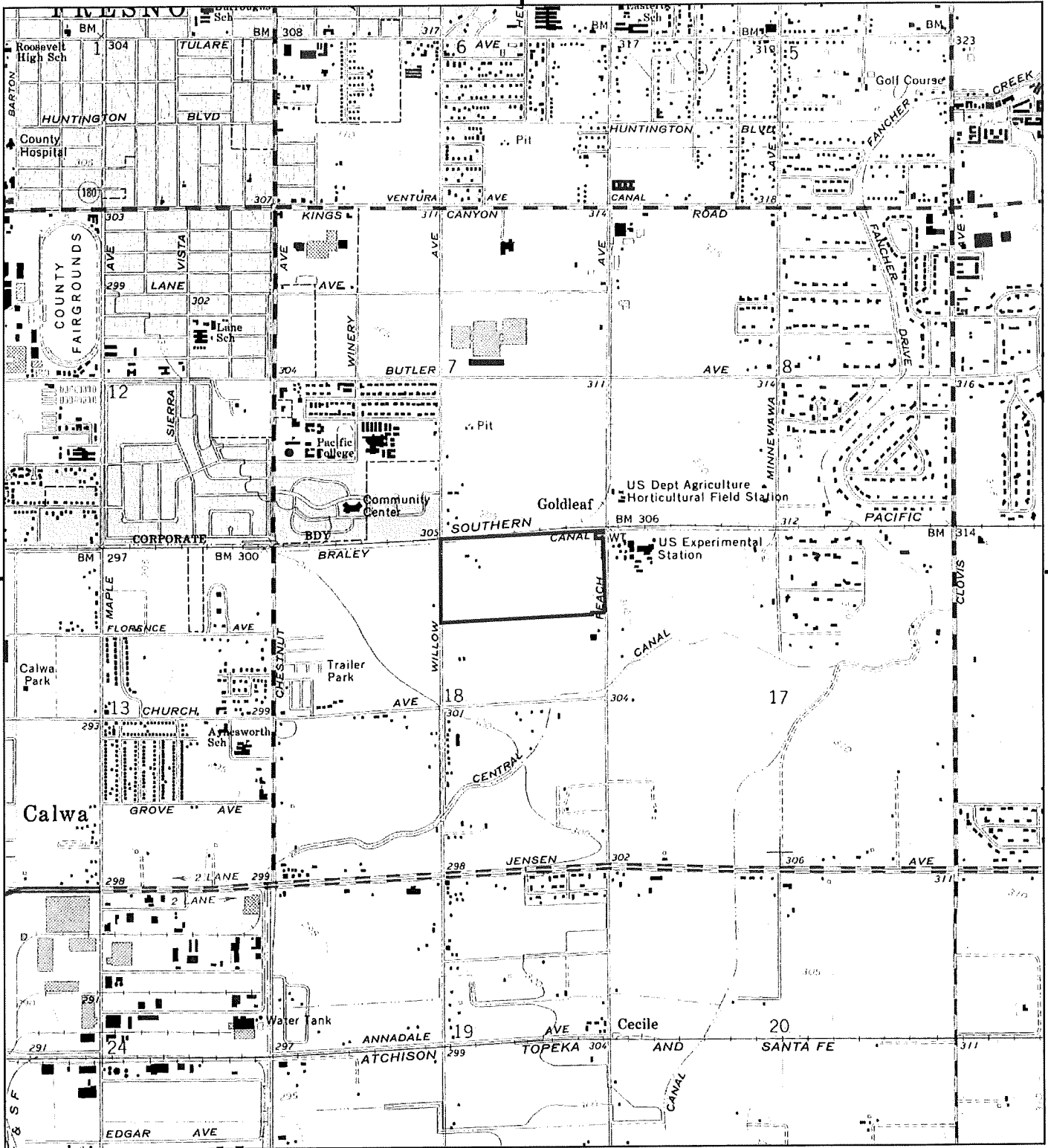
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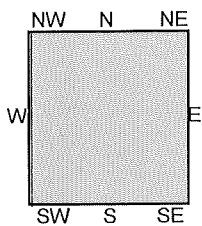
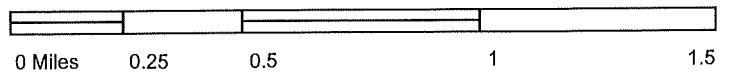
TP, Malaga, 1981, 7.5-minute

SITE NAME: Willow & Peach
 ADDRESS: 2121 S Willow Ave & 2122 S Peach Ave
 Fresno, CA 93725
 CLIENT: Precision Civil Engineering





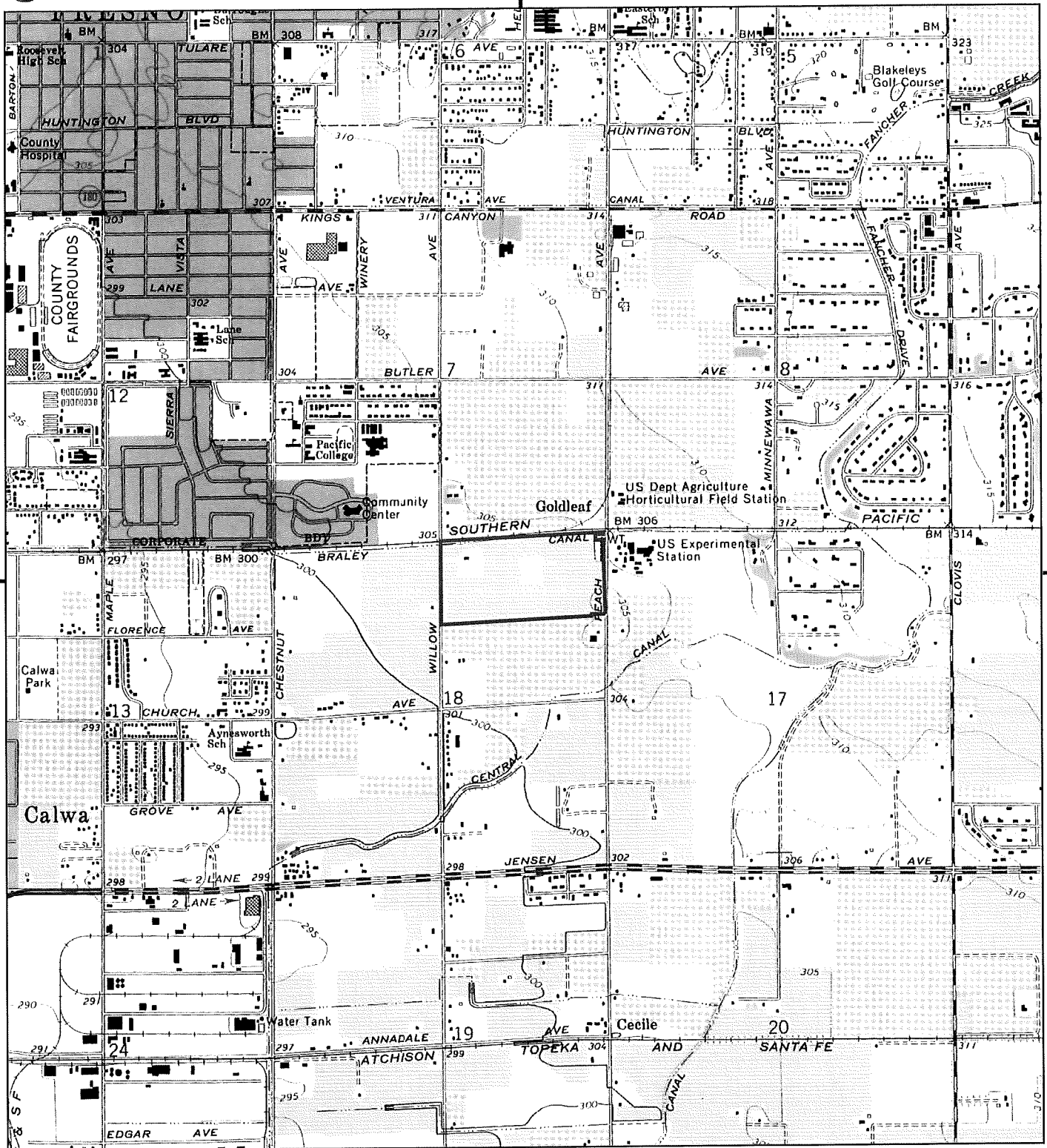
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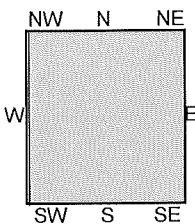
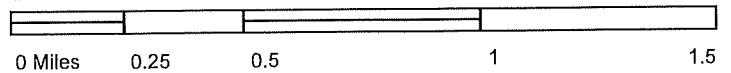
TP, Malaga, 1972, 7.5-minute

SITE NAME: Willow & Peach
 ADDRESS: 2121 S Willow Ave & 2122 S Peach Ave
 Fresno, CA 93725
 CLIENT: Precision Civil Engineering





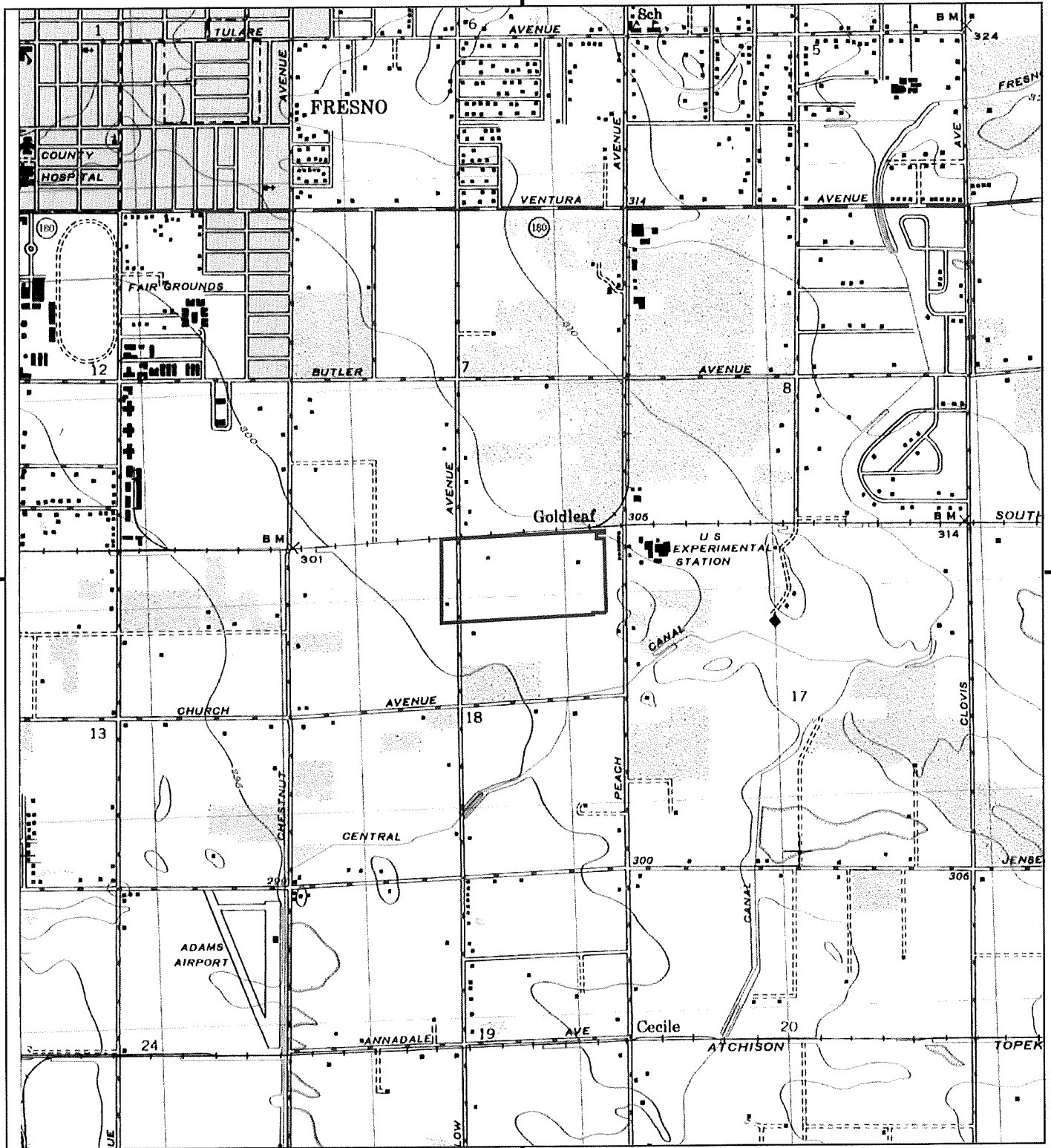
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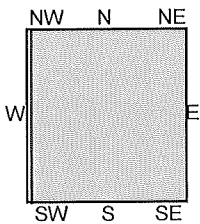
TP, Malaga, 1964, 7.5-minute

SITE NAME: Willow & Peach
 ADDRESS: 2121 S Willow Ave & 2122 S Peach Ave
 Fresno, CA 93725
 CLIENT: Precision Civil Engineering





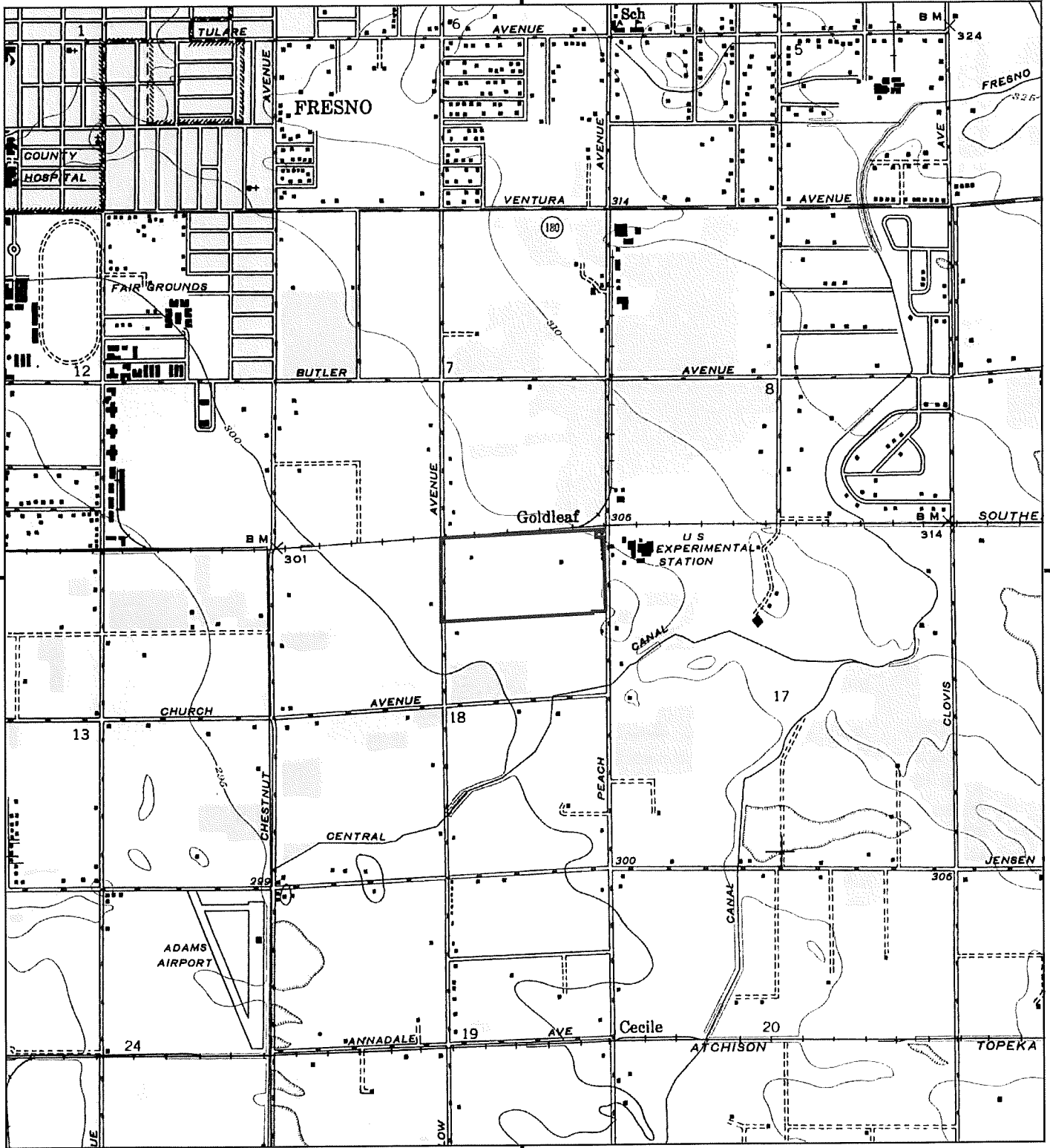
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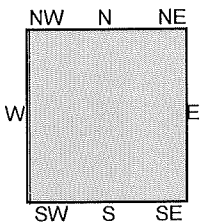
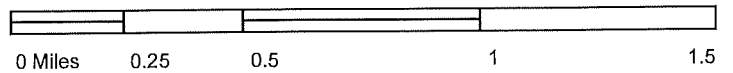
TP, MALAGA, 1948, 7.5-minute

SITE NAME: Willow & Peach
 ADDRESS: 2121 S Willow Ave & 2122 S Peach Ave
 Fresno, CA 93725
 CLIENT: Precision Civil Engineering





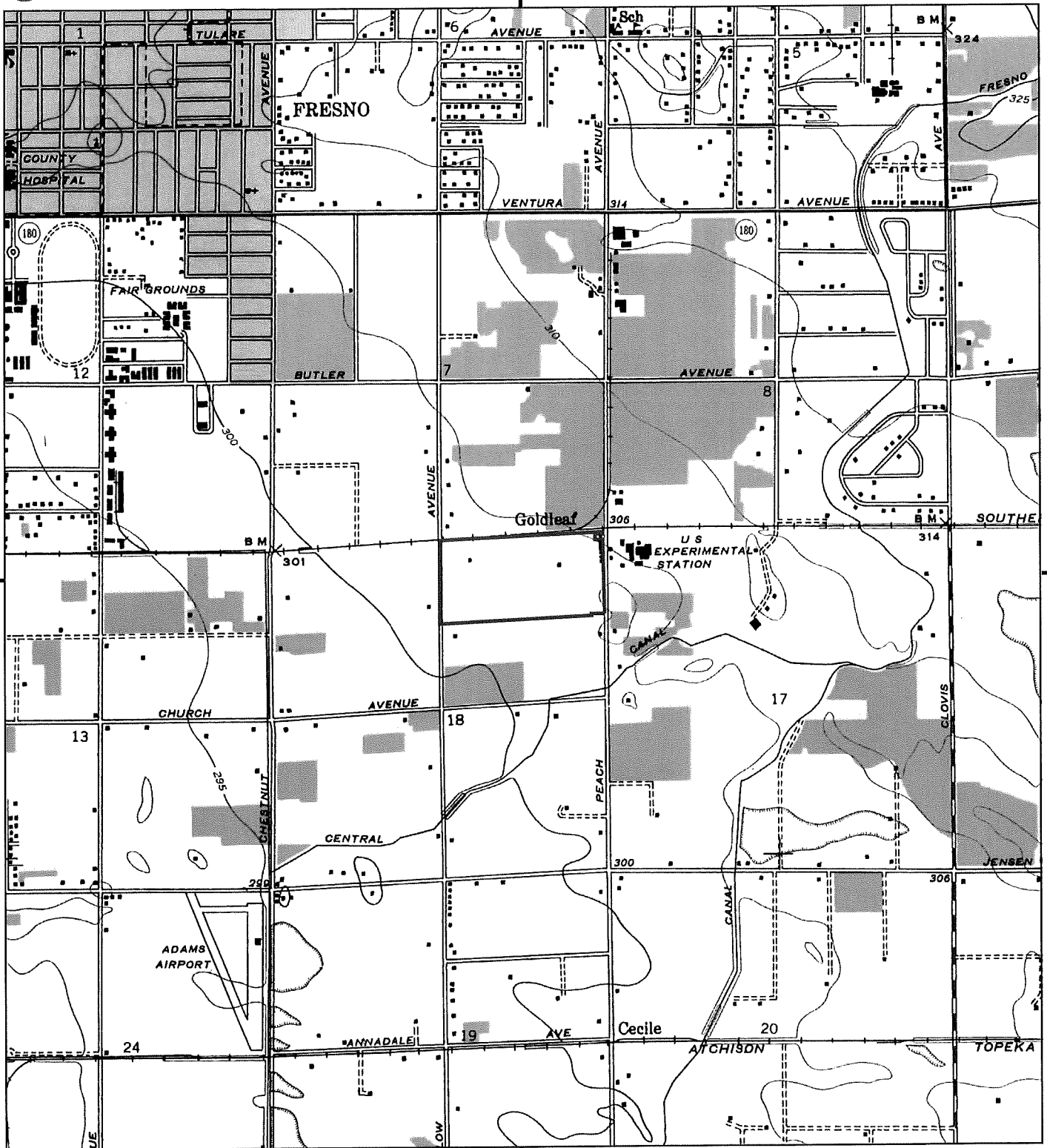
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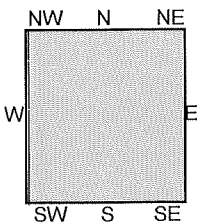
TP, Malaga, 1947, 7.5-minute

SITE NAME: Willow & Peach
 ADDRESS: 2121 S Willow Ave & 2122 S Peach Ave
 Fresno, CA 93725
 CLIENT: Precision Civil Engineering





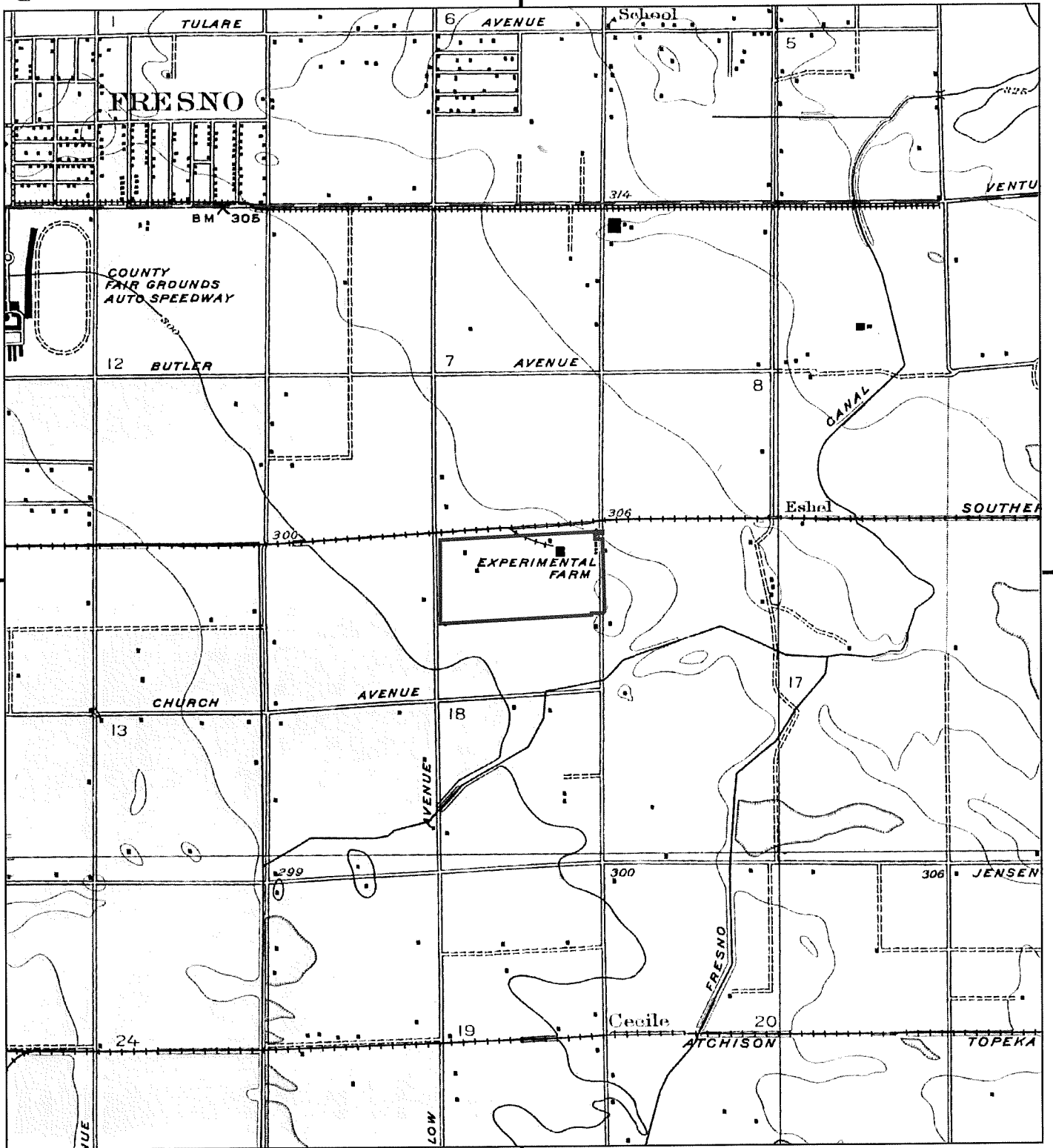
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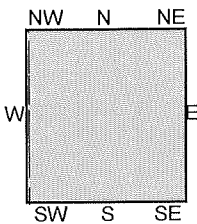
TP, Malaga, 1946, 7.5-minute

SITE NAME: Willow & Peach
 ADDRESS: 2121 S Willow Ave & 2122 S Peach Ave
 Fresno, CA 93725
 CLIENT: Precision Civil Engineering





This report includes information from the following map sheet(s).



TP, Malaga, 1923, 7.5-minute

SITE NAME: Willow & Peach
 ADDRESS: 2121 S Willow Ave & 2122 S Peach Ave
 Fresno, CA 93725
 CLIENT: Precision Civil Engineering



WILLOW & PEACH
2121 S WILLOW AVE
FRESNO, CA

Inquiry Number: 5918248.7S
JANUARY 2, 2020

EDR Environmental Lien and AUL Search



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

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with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

WILLOW & PEACH
2121 S WILLOW AVE
FRESNO, CA

RESEARCH SOURCE

Source 1: FRESNO COUNTY RECORDER'S OFFICE
Source 2: CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Type of Deed: ORDER
Title is vested in: OHANESIAN HOLDINGS, LLC
Title received from: ESTATE OF JOHN OHANESIAN
Date Executed: 07/17/2019
Date Recorded: 07/22/2019
Book: NA
Page: NA
Volume: NA
Instrument#: 20190080396
Docket: NA
Land Record Comments: NA
Miscellaneous Comments: NA

Legal Description: AS RECORDED IN THE DEED ATTACHED.

Current Owner: OHANESIAN HOLDINGS, LLC

Property Identifiers: 481-020-01

Comments: NA

EDR Environmental Lien and AUL Search

ENVIRONMENTAL LIEN

Environmental Lien: Found Not Found

If Found:

1st Party: NA
2nd Party: NA
Dated: NA
Recorded: NA
Book: NA
Page: NA
Docket: NA
Volume: NA
Instrument #: NA
Comments: NA
Miscellaneous: NA

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

Other AUL's: Found Not Found

If Found:

1st Party: NA
2nd Party: NA
Dated: NA
Recorded: NA
Book: NA
Page: NA
Docket: NA
Volume: NA
Instrument #: NA
Comments: NA
Miscellaneous: NA

EDR Environmental Lien and AUL Search

MISCELLANEOUS

Type of Instrument: NONE IDENTIFIED

First Party:

Second Party:

Date Executed:

Date Recorded:

Instrument #:

Book:

Page:

Comments:

EDR Environmental Lien and AUL Search

DEED EXHIBIT

RECORDING REQUESTED BY AND
WHEN RECORDED RETURN TO:

Kenneth A. Baldwin, Esq.
McCormick Barstow LLP
7647 North Fresno Street
Fresno, CA 93720



2019-0080396

FRESNO County Recorder
Paul Dictos, CPA

Monday, Jul 22, 2019 02:33:06 PM

Titles: 1	Pages: 8
Fees:	\$34.00
CA SB2 Fee:	\$75.00
Taxes:	\$0.00
Total:	\$109.00
MCCORMICK BARSTOW LLP	

Fresno County APN: 481-020-01,
329-110-13, and
481-020-47

This Space For Recorder's Use Only

In re the Matter of the Estate of: JOHN OHANESIAN
Fresno Superior Court Case No.: 13 CEPR 01016

**ORDER SETTLING SECOND AND FINAL ACCOUNT AND
ELEVENTH REPORT OF ADMINISTRATION,
ALLOWING STATUTORY AND EXTRAORDINARY FEES
AND COSTS AND FINAL DISTRIBUTION OF ESTATE**

1 "Estate") and Letters of Administration were issued January 14, 2014. Since that date, Petitioners
2 have been and are the duly appointed, qualified and acting Co-Administrators of the Estate.

3 4. Petitioners have performed all of the duties required of them as Co-Administrators
4 of the Estate, and the Estate is in a condition to be settled and closed. All costs of administration
5 have been paid, except for compensation and cost reimbursement due the Co-Administrators and
6 the attorneys for the Estate.

7 5. The Estate was Administered under the Independent Administrations of Estates
8 Act.

9 6. A Federal Estate Tax Return, Form 706 has been accepted by the Internal Revenue
10 Service and an Estate Tax Closing Document was issued November 28, 2014.

11 7. All personal property taxes owed by the Decedent or the Estate have been paid.

12 8. The Decedent was unmarried at the time of his death, and accordingly, all property
13 inventoried in the Estate was comprised of the Decedent's sole and separate property.

14 9. Petitioners are entitled to a statutory commission for ordinary services rendered to
15 the Estate as Co-Administrators of the Estate in the amount set forth hereinafter, the payment of
16 which shall be made by the execution and delivery by the Co-Administrators to themselves of the
17 Non-Recourse Promissory Note (the "Note") referenced in the Petition and attached to the Petition
18 as Exhibit D, which shall be secured by the Deed of Trust referenced in the Petition and attached
19 to the Petition as Exhibit E, which shall also be executed by the Co-Administrators on behalf of
20 the Estate and recorded in the official real property records of Fresno County, California. Upon
21 the sale of any portion of the real property distributed hereunder, the Note shall be submitted into
22 escrow and shall be due and payable upon close of such escrow.

23 10. McCormick, Barstow, Sheppard, Wayte & Carruth LLP as attorneys for the Estate
24 have rendered ordinary and extraordinary services for which they should be compensated. The
25 balance of costs advanced by said attorneys should also be reimbursed to them in the amount set
26 forth hereinafter.

27 11. The account and report as set forth in the petition is full, true and correct and
28 should be settled, allowed and approved as filed.

MCCORMICK, BARSTOW,
SHEPPARD, WAYTE &
CARRUTH LLP
1847 NORTH FRESNO STREET
FRESNO, CA 93724

063660-000000 6117656.1

2

ORDER SETTLING 2ND & FINAL ACCOUNT AND 11TH REPORT OF ADMINISTRATION, ALLOWING
STATUTORY AND EXTRAORDINARY FEES AND COSTS AND FINAL DISTRIBUTION OF ESTATE

1 12. The Report of the Co-Administrators is true and correct and their Petition for
 2 Settlement, Allowance of Administrator's Statutory Commission and Attorneys' Statutory and
 3 Extraordinary Fees and Costs, and for Final Distribution should be granted as prayed.

4 And good cause appearing therefor,

5 It is ORDERED, ADJUDGED and DECREED as follows:

6 (1) The Second and Final Accounting of the Administration is hereby settled, allowed
 7 and approved as filed, showing property on hand with a carry value amounting to \$5,188,230.28,
 8 of which \$263,230.28 is held in cash as of May 22, 2019;

9 (2) All acts and proceedings of the Petitioners as Co-Administrators during the
 10 administration of the Estate as reported herein are ratified and confirmed;

11 (3) Co-Administrators are hereby authorized and directed to execute the Note in the
 12 principal amount of \$65,010.12, payable to the Co-Administrators upon sale of any portion of the
 13 real property distributed hereunder, and to execute and record the Deed of Trust securing the Note
 14 contemporaneously with the distribution of the real property hereunder;

15 (4) Co-Administrators are hereby authorized and directed to pay to McCormick,
 16 Barstow, Sheppard, Wayte & Carruth LLP, the following sums:

17 (a) \$65,010.12 as and for the statutory fees for ordinary services rendered
 18 during the administration of the Estate;

19 (b) \$21,803.50 as and for the extraordinary fees for extraordinary services
 20 rendered during the administration of the Estate;

21 (c) \$831.00 as and for reimbursement of costs advanced or to be advanced
 22 during the period of the Report and distribution hereunder;

23 (5) Subject to payment of the above sums, Petitioners are authorized and directed to
 24 withhold from distribution at this time, all remaining cash assets, or the sum of \$172,585.66, plus
 25 any and all accrued interest, for a period up to three (3) years, for the purpose of managing the
 26 financial obligations related to that real property bearing Fresno County assessor's parcel number
 27 481-020-47 (the "Encumbered Property") and the HCS Loan thereon. Upon sale of the
 28 Encumbered Property, the Co-Administrators shall distribute the remaining balance in equal one-

4

1 sixth (1/6th) shares to Rose Avedisian, Martin Dedekian, Darlene Jarvis, Robert Ohanesian,
2 Stephen Ohanesian and Charlene Shuttera;

3 (6) Final Distribution: Subject to the payment of the above sums, Petitioners are
4 hereby authorized and directed to distribute the Decedent's Estate as follows:

5 (a) To Ohanesian Holdings, LLC, a California limited liability company:

6 All of that real property commonly known as 2121 S. Willow,
7 Fresno, California consisting of 38.37 acres, more or less, and
8 more particularly described as follows:

9 Lots 15 and 16 of Newhall Tract, record of Survey in Book 2, Page
10 42, Records of Fresno County.

11 APN: 481-020-01;

12 (b) To Ohanesian Holdings, LLC, a California limited liability company:

13 All of that real property consisting of 19.44 acres more or less,
14 described as follows:

15 Lot 4 of Central California Colony according to the map recorded
16 in Book 2, Page 1 of Maps, Fresno County Records, dated July 27,
17 1928.

18 APN: 329-110-13;

19 (c) To Rose Avedisian, a one-sixth (1/6th) membership interest in Ohanesian
20 Holdings, LLC;

21 (d) To Martin Dedekian, a one-sixth (1/6th) membership interest in Ohanesian
22 Holdings, LLC;

23 (e) To Darlene Jarvis, a one-sixth (1/6th) membership interest in Ohanesian
24 Holdings, LLC;

25 (f) To Robert Ohanesian, a one-sixth (1/6th) membership interest in Ohanesian
26 Holdings, LLC;

27 (g) To Stephen Ohanesian, a one-sixth (1/6th) membership interest in Ohanesian
28 Holdings, LLC;

(h) To Charlene Shuttera, a one-sixth (1/6th) membership interest in Ohanesian
Holdings, LLC;

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(i) To Rose Avedisian, Martin Dedekian, Darlene Jarvis, Robert Ohanesian, Stephen Ohanesian and Charlene Shuttera, each as to an undivided one-sixth interest as tenants-in-common the following described real property:

That real property commonly known as 2122, 2126, 2130 & 2134 S. Peach, Fresno, California consisting of 38.12 acres more or less, described as:

Lots 1 and 2 of Newhall Tract, Record of Survey in Book 2, Page 42, Records of Fresno County;

Excepting from Lot 1, the Southerly 75 feet of the Northerly 130 feet of the Easterly .115 feet thereof.

APN: 481-020-47

(7) Any other property whether or not now known or discovered and whether or not described herein which may belong to the Estate or in which the Decedent or his Estate may have an interest, be distributed in equal one-sixth (1/6) shares to Rose Avedisian, Martin Dedekian, Darlene Jarvis, Robert Ohanesian, Stephen Ohanesian, and Charlene Shuttera.

DATED: 7/17, 2019

[Handwritten Signature]

JUDGE OF THE SUPERIOR COURT

The foregoing instrument is a correct copy of the original on file in this office.



ATTEST: JUL 17 2019

Superior Court Clerk
State of California, County of Fresno
By *[Handwritten Signature]* DEPUTY

6

WILLOW & PEACH
2122 S PEACH AVE
FRESNO, CA 93725

Inquiry Number: 5918248.7S
JANUARY 2, 2020

EDR Environmental Lien and AUL Search



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

WILLOW & PEACH
2122 S PEACH AVE
FRESNO, CA 93725

RESEARCH SOURCE

Source 1: FRESNO COUNTY RECORDER'S OFFICE
Source 2: CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Type of Deed: ORDER
Title is vested in: ROSE AVEDISIAN, MARTIN DEDEKIAN, DARLENE JARVIS, ROBERT OHANESIAN,
STEPHEN OHANESIAN AND CHARLENE SHUTTERA
Title received from: ESTATE OF JOHN OHANESIAN
Date Executed: 07/17/2019
Date Recorded: 07/22/2019
Book: NA
Page: NA
Volume: NA
Instrument#: 2019-0080396
Docket: NA
Land Record Comments: NA
Miscellaneous Comments: NA

Legal Description: 38.12 AC IN LOTS 1 & 2 NEWHALL TRACT

Current Owner: ROSE AVEDISIAN, MARTIN DEDEKIAN, DARLENE JARVIS, ROBERT OHANESIAN,
STEPHEN OHANESIAN AND CHARLENE SHUTTERA

Property Identifiers: 481-020-47

Comments: NA

EDR Environmental Lien and AUL Search

ENVIRONMENTAL LIEN

Environmental Lien: Found Not Found

If Found:

1st Party: NA
2nd Party: NA
Dated: NA
Recorded: NA
Book: NA
Page: NA
Docket: NA
Volume: NA
Instrument #: NA
Comments: NA
Miscellaneous: NA

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

Other AUL's: Found Not Found

If Found:

1st Party: NA
2nd Party: NA
Dated: NA
Recorded: NA
Book: NA
Page: NA
Docket: NA
Volume: NA
Instrument #: NA
Comments: NA
Miscellaneous: NA

EDR Environmental Lien and AUL Search

MISCELLANEOUS

Type of Instrument: NONE IDENTIFIED

First Party:

Second Party:

Date Executed:

Date Recorded:

Instrument #:

Book:

Page:

Comments:

EDR Environmental Lien and AUL Search

DEED EXHIBIT

RECORDING REQUESTED BY AND
WHEN RECORDED RETURN TO:

Kenneth A. Baldwin, Esq.
McCormick Barstow LLP
7647 North Fresno Street
Fresno, CA 93720



2019-0080396

FRESNO County Recorder
Paul Dictos, CPA

Monday, Jul 22, 2019 02:33:06 PM

Titles: 1	Pages: 8
Fees:	\$34.00
CA SB2 Fee:	\$75.00
Taxes:	\$0.00
Total:	\$109.00
MCCORMICK BARSTOW LLP	

Fresno County APN: 481-020-01,
329-110-13, and
481-020-47

This Space For Recorder's Use Only

In re the Matter of the Estate of: JOHN OHANESIAN
Fresno Superior Court Case No.: 13 CEPR 01016

**ORDER SETTLING SECOND AND FINAL ACCOUNT AND
ELEVENTH REPORT OF ADMINISTRATION,
ALLOWING STATUTORY AND EXTRAORDINARY FEES
AND COSTS AND FINAL DISTRIBUTION OF ESTATE**

FILED

JUL 17 2019

FRESNO COUNTY SUPERIOR COURT
By: *CAE* - DEPUTY

1 McCormick, Barstow, Sheppard,
Wayte & Carruth LLP
2 Kenneth A. Baldwin, #131111
ken.baldwin@mccormickbarstow.com
3 Jason O. Howard, #302983
jason.howard@mccormickbarstow.com
4 7647 North Fresno Street
Fresno, California 93720
5 Telephone: (559) 433-1300
Facsimile: (559) 433-2300

6 Attorneys for Stephen Ohanesian and
7 Robert Ohanesian, Co-Administrators

RECEIVED
6/28/2019 12:09 PM
FRESNO COUNTY SUPERIOR COURT
By: Teresa Avina, Deputy

8 SUPERIOR COURT OF THE STATE OF CALIFORNIA

9 COUNTY OF FRESNO

10
11 In re the

12 JOHN OHANESIAN

Case No. 13 CEPR 01016

**ORDER SETTLING SECOND AND
FINAL ACCOUNT AND ELEVENTH
REPORT OF ADMINISTRATION,
ALLOWING STATUTORY AND
EXTRAORDINARY FEES AND COSTS
AND FINAL DISTRIBUTION OF
ESTATE**

Date: JULY 17, 2019
Time: 9:00 A.M.
Dept.: 303

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19 The Second and Final Account and Eleventh Report of Administration, Petition for
20 Statutory and Extraordinary Fees and Costs and for Final Distribution of the Estate of John
21 Ohanesian (the "Petition") filed by Stephen Ohanesian and Robert Ohanesian ("Co-
22 Administrators") came on regularly for hearing on this 17th day of July, 2019. The Court having
23 examined the Petition, being fully advised in the premises thereof, and discovering no person
24 appearing in opposition thereto, finds as follows:

- 25 1. Notice of Hearing of the Petition was duly given as required by law.
26 2. John Ohanesian ("Decedent") died, intestate, on October 27, 2013, a resident of,
27 and leaving property subject to administration in the County of Fresno, State of California.
28 3. Petitioners were appointed Co-Administrators of the Decedent's estate (the

1 "Estate") and Letters of Administration were issued January 14, 2014. Since that date, Petitioners
2 have been and are the duly appointed, qualified and acting Co-Administrators of the Estate.

3 4. Petitioners have performed all of the duties required of them as Co-Administrators
4 of the Estate, and the Estate is in a condition to be settled and closed. All costs of administration
5 have been paid, except for compensation and cost reimbursement due the Co-Administrators and
6 the attorneys for the Estate.

7 5. The Estate was Administered under the Independent Administrations of Estates
8 Act.

9 6. A Federal Estate Tax Return, Form 706 has been accepted by the Internal Revenue
10 Service and an Estate Tax Closing Document was issued November 28, 2014.

11 7. All personal property taxes owed by the Decedent or the Estate have been paid.

12 8. The Decedent was unmarried at the time of his death, and accordingly, all property
13 inventoried in the Estate was comprised of the Decedent's sole and separate property.

14 9. Petitioners are entitled to a statutory commission for ordinary services rendered to
15 the Estate as Co-Administrators of the Estate in the amount set forth hereinafter, the payment of
16 which shall be made by the execution and delivery by the Co-Administrators to themselves of the
17 Non-Recourse Promissory Note (the "Note") referenced in the Petition and attached to the Petition
18 as Exhibit D, which shall be secured by the Deed of Trust referenced in the Petition and attached
19 to the Petition as Exhibit E, which shall also be executed by the Co-Administrators on behalf of
20 the Estate and recorded in the official real property records of Fresno County, California. Upon
21 the sale of any portion of the real property distributed hereunder, the Note shall be submitted into
22 escrow and shall be due and payable upon close of such escrow.

23 10. McCormick, Barstow, Sheppard, Wayte & Carruth LLP as attorneys for the Estate
24 have rendered ordinary and extraordinary services for which they should be compensated. The
25 balance of costs advanced by said attorneys should also be reimbursed to them in the amount set
26 forth hereinafter.

27 11. The account and report as set forth in the petition is full, true and correct and
28 should be settled, allowed and approved as filed.

1 12. The Report of the Co-Administrators is true and correct and their Petition for
 2 Settlement, Allowance of Administrator's Statutory Commission and Attorneys' Statutory and
 3 Extraordinary Fees and Costs, and for Final Distribution should be granted as prayed.

4 And good cause appearing therefor,

5 It is ORDERED, ADJUDGED and DECREED as follows:

6 (1) The Second and Final Accounting of the Administration is hereby settled, allowed
 7 and approved as filed, showing property on hand with a carry value amounting to \$5,188,230.28,
 8 of which \$263,230.28 is held in cash as of May 22, 2019;

9 (2) All acts and proceedings of the Petitioners as Co-Administrators during the
 10 administration of the Estate as reported herein are ratified and confirmed;

11 (3) Co-Administrators are hereby authorized and directed to execute the Note in the
 12 principal amount of \$65,010.12, payable to the Co-Administrators upon sale of any portion of the
 13 real property distributed hereunder, and to execute and record the Deed of Trust securing the Note
 14 contemporaneously with the distribution of the real property hereunder;

15 (4) Co-Administrators are hereby authorized and directed to pay to McCormick,
 16 Barstow, Sheppard, Wayte & Carruth LLP, the following sums:

17 (a) \$65,010.12 as and for the statutory fees for ordinary services rendered
 18 during the administration of the Estate;

19 (b) \$21,803.50 as and for the extraordinary fees for extraordinary services
 20 rendered during the administration of the Estate;

21 (c) \$831.00 as and for reimbursement of costs advanced or to be advanced
 22 during the period of the Report and distribution hereunder;

23 (5) Subject to payment of the above sums, Petitioners are authorized and directed to
 24 withhold from distribution at this time, all remaining cash assets, or the sum of \$172,585.66, plus
 25 any and all accrued interest, for a period up to three (3) years, for the purpose of managing the
 26 financial obligations related to that real property bearing Fresno County assessor's parcel number
 27 481-020-47 (the "Encumbered Property") and the HCS Loan thereon. Upon sale of the
 28 Encumbered Property, the Co-Administrators shall distribute the remaining balance in equal one-

1 sixth (1/6th) shares to Rose Avedisian, Martin Dedekian, Darlene Jarvis, Robert Ohanesian,
2 Stephen Ohanesian and Charlene Shuttera;

3 (6) Final Distribution: Subject to the payment of the above sums, Petitioners are
4 hereby authorized and directed to distribute the Decedent's Estate as follows:

5 (a) To Ohanesian Holdings, LLC, a California limited liability company:

6 All of that real property commonly known as 2121 S. Willow,
7 Fresno, California consisting of 38.37 acres, more or less, and
8 more particularly described as follows:

9 Lots 15 and 16 of Newhall Tract, record of Survey in Book 2, Page
10 42, Records of Fresno County.

11 APN: 481-020-01;

12 (b) To Ohanesian Holdings, LLC, a California limited liability company:

13 All of that real property consisting of 19.44 acres more or less,
14 described as follows:

15 Lot 4 of Central California Colony according to the map recorded
16 in Book 2, Page 1 of Maps, Fresno County Records, dated July 27,
17 1928.

18 APN: 329-110-13;

19 (c) To Rose Avedisian, a one-sixth (1/6th) membership interest in Ohanesian
20 Holdings, LLC;

21 (d) To Martin Dedekian, a one-sixth (1/6th) membership interest in Ohanesian
22 Holdings, LLC;

23 (e) To Darlene Jarvis, a one-sixth (1/6th) membership interest in Ohanesian
24 Holdings, LLC;

25 (f) To Robert Ohanesian, a one-sixth (1/6th) membership interest in Ohanesian
26 Holdings, LLC;

27 (g) To Stephen Ohanesian, a one-sixth (1/6th) membership interest in Ohanesian
28 Holdings, LLC;

(h) To Charlene Shuttera, a one-sixth (1/6th) membership interest in Ohanesian
Holdings, LLC;

5

1 (i) To Rose Avedisian, Martin Dedekian, Darlene Jarvis, Robert Ohanesian,
2 Stephen Ohanesian and Charlene Shuttera, each as to an undivided one-sixth interest as tenants-in-
3 common the following described real property:

4 That real property commonly known as 2122, 2126, 2130 & 2134
5 S. Peach, Fresno, California consisting of 38.12 acres more or less,
described as:

6 Lots 1 and 2 of Newhall Tract, Record of Survey in Book 2, Page
42, Records of Fresno County;

7 Excepting from Lot 1, the Southerly 75 feet of the Northerly 130
8 feet of the Easterly 115 feet thereof.

9 APN: 481-020-47

10 (7) Any other property whether or not now known or discovered and whether or not
11 described herein which may belong to the Estate or in which the Decedent or his Estate may have
12 an interest, be distributed in equal one-sixth (1/6) shares to Rose Avedisian, Martin Dedekian,
13 Darlene Jarvis, Robert Ohanesian, Stephen Ohanesian, and Charlene Shuttera.

14 DATED: 7/17, 2019

15 *[Signature]*
16 JUDGE OF THE SUPERIOR COURT

17 The foregoing instrument is a correct
18 copy of the original on file in this
19 office.



20 ATTEST: JUL 17 2019

21 Superior Court Clerk
22 State of California, County of Fresno
By *[Signature]* DEPUTY

Willow & Peach

2121 S Willow Ave & 2122 S Peach Ave
Fresno, CA 93725

Inquiry Number: 5918248.8
December 27, 2019

EDR Building Permit Report
Target Property and Adjoining Properties

TABLE OF CONTENTS

SECTION

About This Report

Executive Summary

Findings

Glossary

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

ASTM and EPA Requirements

ASTM E 1527-13 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquires (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

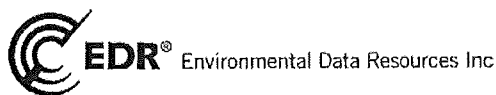
Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFAX, the nation's largest repository of building department records. BuildFAX collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.



EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

A search of building department records was conducted by Environmental Data Resources, Inc (EDR) on behalf of Precision Civil Engineering on Dec 27, 2019.

TARGET PROPERTY

2121 S Willow Ave & 2122 S Peach Ave
Fresno, CA 93725

SEARCH METHODS

EDR searches available lists for both the Target Property and Surrounding Properties.

RESEARCH SUMMARY

Building permits identified: **NO PERMITS IDENTIFIED**

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Name: JurisdictionName
Years: Years
Source: Source
Phone: Phone

BUILDING DEPARTMENT RECORDS SEARCHED

Name: Fresno
Years: 1967-2018
Source: City of Fresno, Building and Safety Services, FRESNO, CA
Phone: (559) 621-8082

Name: Fresno County Unincorporated Area
Years: 1967-2019
Source: Fresno County, Public Works and Planning, FRESNO, CA
Phone: (559) 600-4078

Name: Hanford
Years: 1996-2019
Source: City of Hanford, Building Division, HANFORD, CA
Phone: (559) 585-2581

Name: Livermore
Years: 1988-2019
Source: City of Livermore, Community Development, Building Department, LIVERMORE, CA
Phone: (925) 960-4410

Name: Redding
Years: 1926-2019
Source: City of Redding, Development Services, Building Division, MANTECA, CA
Phone: 530-225-4014

TARGET PROPERTY FINDINGS

TARGET PROPERTY DETAIL

2121 S Willow Ave & 2122 S Peach Ave
Fresno, CA 93725

No Permits Found

ADJOINING PROPERTY FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

No Permits Found

GLOSSARY

General Building Department concepts

- **ICC:** The International Code Council. The governing body for the building/development codes used by all jurisdictions who've adopted the ICC guidelines. MOST of the US has done this. Canada, Mexico, and other countries use ICC codes books and guides as well. There are a few states who have added guidelines to the ICC codes to better fit their needs. For example, California has added seismic retrofit requirements for most commercial structures.
- **Building Department (Permitting Authority, Building Codes, Inspections Department, Building and Inspections):** This is the department in a jurisdiction where an owner or contractor goes to obtain permits and inspections for building, tearing down, remodeling, adding to, re-roofing, moving or otherwise making changes to any structure, Residential or Commercial.
- **Jurisdiction:** This is the geographic area representing the properties over which a Permitting Authority has responsibility.
- **GC:** General Contractor. Usually the primary contractor hired for any Residential or Commercial construction work.
- **Sub:** Subordinate contracting companies or subcontractors. Usually a "trades" contractor working for the GC. These contractors generally have an area of expertise in which they are licensed like Plumbing, Electrical, Heating and Air systems, Gas Systems, Pools etc. (called "trades").
- **Journeyman:** Sub contractors who have their own personal licenses in one or more trades and work for different contracting companies, wherever they are needed or there is work.
- **HVAC (Mechanical, Heating & Air companies):** HVAC = Heating, Ventilation, and Air Conditioning.
- **ELEC (Electrical, TempPole, TPole, TPower, Temporary Power, Panel, AMP Change, Power Release):** Electrical permits can be pulled for many reasons. The most common reason is to increase the AMPs of power in an electrical power panel. This requires a permit in almost every jurisdiction. Other common reasons for Electrical permits is to insert a temporary power pole at a new construction site. Construction requires electricity, and in a new development, power has yet to be run to the lot. The temporary power pole is usually the very first permit pulled for new development. The power is released to the home owner when construction is complete and this sometimes takes the form of a Power Release permit or inspection.
- **"Pull" a permit:** To obtain and pay for a building permit.
- **CBO:** Chief Building Official
- **Planning Department:** The department in the development process where the building /structural plans are reviewed for their completeness and compliance with building codes
- **Zoning Department:** The department in the development process where the site plans are reviewed for their compliance with the regulations associated with the zoning district in which they are situated.
- **Zoning District:** A pre-determined geographic boundary within a jurisdiction where certain types of structures are permitted / prohibited. Examples are Residential structure, Commercial/Retail structures, Industrial/Manufacturing structures etc. Each zoning district has regulations associated with it like the sizes of the lots, the density of the structures on the lots, the number of parking spaces required for certain types of structures on the lots etc.
- **PIN (TMS, GIS ID, Parcel#):** Property Identification Number and Tax Map System number.
- **State Card (Business license):** A license card issued to a contractor to conduct business.
- **Building Inspector (Inspector):** The inspector is a building department employee that inspects building construction for compliance to codes.
- **C.O.:** Certificate of Occupancy. This is the end of the construction process and designates that the owners now have permission to occupy a structure after its building is complete. Sometimes also referred to as a Certificate of Compliance.

GLOSSARY

Permit Content Definitions

- **Permit Number:** The alphanumerical designation assigned to a permit for tracking within the building department system. Sometimes the permit number gives clues to its role, e.g. a "PL" prefix may designate a plumbing permit.
- **Description:** A field on the permit form that allows the building department to give a brief description of the work being done. More often than not, this is the most important field for EP's to find clues to the prior use(s) of the property.
- **Permit Type:** Generally a brief designation of the type of job being done. For example BLDG-RES, BLDG-COM, ELEC, MECH etc.

Sample Building Permit Data

Date: Nov 09, 2000
Permit Type: Bldg -
New Permit Number: 101000000405
Status: Valuation: \$1,000,000.00
Contractor Company: OWNER-BUILDER
Contractor Name:

Description: New one store retail (SAV-ON) with drive-thru pharmacy. Certificate of Occupancy.

APPENDIX C

REGULATORY AGENCY DATABASE SUMMARY
(EDR)

Willow & Peach

2121 S Willow Ave & 2122 S Peach Ave
Fresno, CA 93725

Inquiry Number: 5918248.2s
December 27, 2019

EDR Summary Radius Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

2121 S WILLOW AVE & 2122 S PEACH AVE
FRESNO, CA 93725

COORDINATES

Latitude (North):	36.7201740 - 36° 43' 12.62"
Longitude (West):	119.7228800 - 119° 43' 22.36"
Universal Tranverse Mercator: Zone	11
UTM X (Meters):	256811.7
UTM Y (Meters):	4067085.2
Elevation:	307 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	TP
Source:	U.S. Geological Survey

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140619
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
 2121 S WILLOW AVE & 2122 S PEACH AVE
 FRESNO, CA 93725

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	OHANESIAN PROPERTY	2122 S PEACH AVE	CUPA Listings		TP
2	USDA AGRICULTURE RES	2221 S PEACH	CUPA Listings	Higher	57, 0.011, East
A3	MARTIN DEDEKIAN	2178 S WILLOW	SWEEPS UST, HIST UST, CA FID UST	Higher	89, 0.017, West
A4	MARTIN DEDEKIAN	2178 S WILLOW AVE	HIST UST	Higher	89, 0.017, West
B5	FUSD-TERRONEZ MIDDLE	2300 S WILLOW AVE	RCRA NonGen / NLR	Lower	444, 0.084, SW
B6		2300 S WILLOW AVE	RCRA NonGen / NLR	Lower	444, 0.084, SW
C7	FRUIT GENETICS AND B	2021 S PEACH AVE	HIST UST	Higher	520, 0.098, NE
C8	FRUIT GENETICS & BRE	2021 S PEACH AVE	HIST UST	Higher	520, 0.098, NE
C9	USDA ARS	2021 S PEACH AVE	FINDS, ECHO, CUPA Listings	Higher	520, 0.098, NE
C10	U.S.D.A. AGRICULTURE	2021 PEACH	LUST, HIST CORTESE, CERS	Higher	520, 0.098, NE
C11	USDA AGRICULTURE RES	2021 S PEACH	SWEEPS UST, CA FID UST	Higher	520, 0.098, NE
C12	FRESNO HORTICULTURAL	2021 SOUTH PEACH AVE	SEMS-ARCHIVE, RCRA-SQG, DOCKET HWC	Higher	520, 0.098, NE
13	SERVPRO OF FRESNO SO	5171 E WOODWARD AVE	EDR Hist Cleaner	Higher	560, 0.106, NNE
14	PILIBOS RESIDENCE	1919 S WILLOW	CUPA Listings	Higher	857, 0.162, NNW
15	BEST AUTO SERVICE	2363 S TIMMY	CUPA Listings	Lower	862, 0.163, South
D16	1X FRESNO PACIFIC	1818 S WILLOW	CUPA Listings, HAZNET, CERS	Higher	1045, 0.198, NW
D17	FRESNO PACIFIC COLLE	1818 S WILLOW AVE	SWEEPS UST	Higher	1045, 0.198, NW
D18	FRESNO PACIFIC COLLE	1818 S WILLOW	CUPA Listings	Higher	1045, 0.198, NW
19	PLANNED SOUTHEAST SC	SOUTHWEST CORNER OF	ENVIROSTOR, SCH	Lower	1828, 0.346, South
20	CHURCH & ORANGEWOOD	SW CORNER OF E. CHUR	ENVIROSTOR, SCH	Higher	2341, 0.443, SE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
OHANESIAN PROPERTY 2122 S PEACH AVE FRESNO, CA 93725	CUPA Listings Database: CUPA FRESNO, Date of Government Version: 10/08/2019 Facility Id: FA0284615	N/A

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 10/25/2019 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>FRESNO HORTICULTURAL</i> Site ID: 0903879 EPA Id: CA7120090397	<i>2021 SOUTH PEACH AVE</i>	<i>NE 0 - 1/8 (0.098 mi.)</i>	<i>C12</i>	<i>10</i>

Federal RCRA generators list

RCRA-SQG: A review of the RCRA-SQG list, as provided by EDR, and dated 12/16/2019 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>FRESNO HORTICULTURAL</i> EPA ID: CA7120090397	<i>2021 SOUTH PEACH AVE</i>	<i>NE 0 - 1/8 (0.098 mi.)</i>	<i>C12</i>	<i>10</i>

EXECUTIVE SUMMARY

State- and tribal - equivalent CERCLIS

ENVIROSTOR: A review of the ENVIROSTOR list, as provided by EDR, and dated 07/29/2019 has revealed that there are 2 ENVIROSTOR sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CHURCH & ORANGEWOOD Status: No Further Action Facility Id: 60002701	SW CORNER OF E. CHUR	SE 1/4 - 1/2 (0.443 mi.)	20	12
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PLANNED SOUTHEAST SC Status: No Further Action Facility Id: 60002297	SOUTHWEST CORNER OF	S 1/4 - 1/2 (0.346 mi.)	19	12

State and tribal leaking storage tank lists

LUST: A review of the LUST list, as provided by EDR, has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
U.S.D.A. AGRICULTURE Database: LUST REG 5, Date of Government Version: 07/01/2008 Database: LUST, Date of Government Version: 09/09/2019 Status: Completed - Case Closed Status: Case Closed Global Id: T0601900555	2021 PEACH	NE 0 - 1/8 (0.098 mi.)	C10	10

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

SWEEPS UST: A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 3 SWEEPS UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MARTIN DEDEKIAN Status: A Tank Status: A Comp Number: 56590	2178 S WILLOW	W 0 - 1/8 (0.017 mi.)	A3	8
USDA AGRICULTURE RES Comp Number: 1004	2021 S PEACH	NE 0 - 1/8 (0.098 mi.)	C11	10
FRESNO PACIFIC COLLE	1818 S WILLOW AVE	NW 1/8 - 1/4 (0.198 mi.)	D17	11

EXECUTIVE SUMMARY

Comp Number: 13113

HIST UST: A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 4 HIST UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MARTIN DEDEKIAN	2178 S WILLOW	W 0 - 1/8 (0.017 mi.)	A3	8
MARTIN DEDEKIAN Facility Id: 00000056590	2178 S WILLOW AVE	W 0 - 1/8 (0.017 mi.)	A4	8
FRUIT GENETICS AND B	2021 S PEACH AVE	NE 0 - 1/8 (0.098 mi.)	C7	9
FRUIT GENETICS & BRE Facility Id: 00000059014	2021 S PEACH AVE	NE 0 - 1/8 (0.098 mi.)	C8	9

CA FID UST: A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 2 CA FID UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MARTIN DEDEKIAN	2178 S WILLOW	W 0 - 1/8 (0.017 mi.)	A3	8
Facility Id: 10008129 Status: A				
USDA AGRICULTURE RES	2021 S PEACH	NE 0 - 1/8 (0.098 mi.)	C11	10
Facility Id: 10004435 Status: I				

Other Ascertainable Records

RCRA NonGen / NLR: A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/16/2019 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FUSD-TERRONEZ MIDDLE	2300 S WILLOW AVE	SW 0 - 1/8 (0.084 mi.)	B5	9
EPA ID:: CAL000318203				
Not reported	2300 S WILLOW AVE	SW 0 - 1/8 (0.084 mi.)	B6	9

CUPA Listings: A review of the CUPA Listings list, as provided by EDR, has revealed that there are 6 CUPA Listings sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
USDA AGRICULTURE RES	2221 S PEACH	E 0 - 1/8 (0.011 mi.)	2	8
Database: CUPA FRESNO, Date of Government Version: 10/08/2019				

EXECUTIVE SUMMARY

Facility Id: FA0170542				
USDA ARS	2021 S PEACH AVE	NE 0 - 1/8 (0.098 mi.)	C9	9
Database: CUPA FRESNO, Date of Government Version: 10/08/2019				
Facility Id: FA0170540				
PILIBOS RESIDENCE	1919 S WILLOW	NNW 1/8 - 1/4 (0.162 mi.)	14	11
Database: CUPA FRESNO, Date of Government Version: 10/08/2019				
Facility Id: FA0275101				
1X FRESNO PACIFIC	1818 S WILLOW	NW 1/8 - 1/4 (0.198 mi.)	D16	11
Database: CUPA FRESNO, Date of Government Version: 10/08/2019				
Facility Id: FA0283436				
FRESNO PACIFIC COLLE	1818 S WILLOW	NW 1/8 - 1/4 (0.198 mi.)	D18	11
Database: CUPA FRESNO, Date of Government Version: 10/08/2019				
Facility Id: FA0272850				
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BEST AUTO SERVICE	2363 S TIMMY	S 1/8 - 1/4 (0.163 mi.)	15	11
Database: CUPA FRESNO, Date of Government Version: 10/08/2019				
Facility Id: FA0276196				

HIST CORTESE: A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 HIST CORTESE site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
U.S.D.A. AGRICULTURE	2021 PEACH	NE 0 - 1/8 (0.098 mi.)	C10	10
Reg Id: 5T10000572				

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Cleaner: A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within approximately 0.125 miles of the target property.

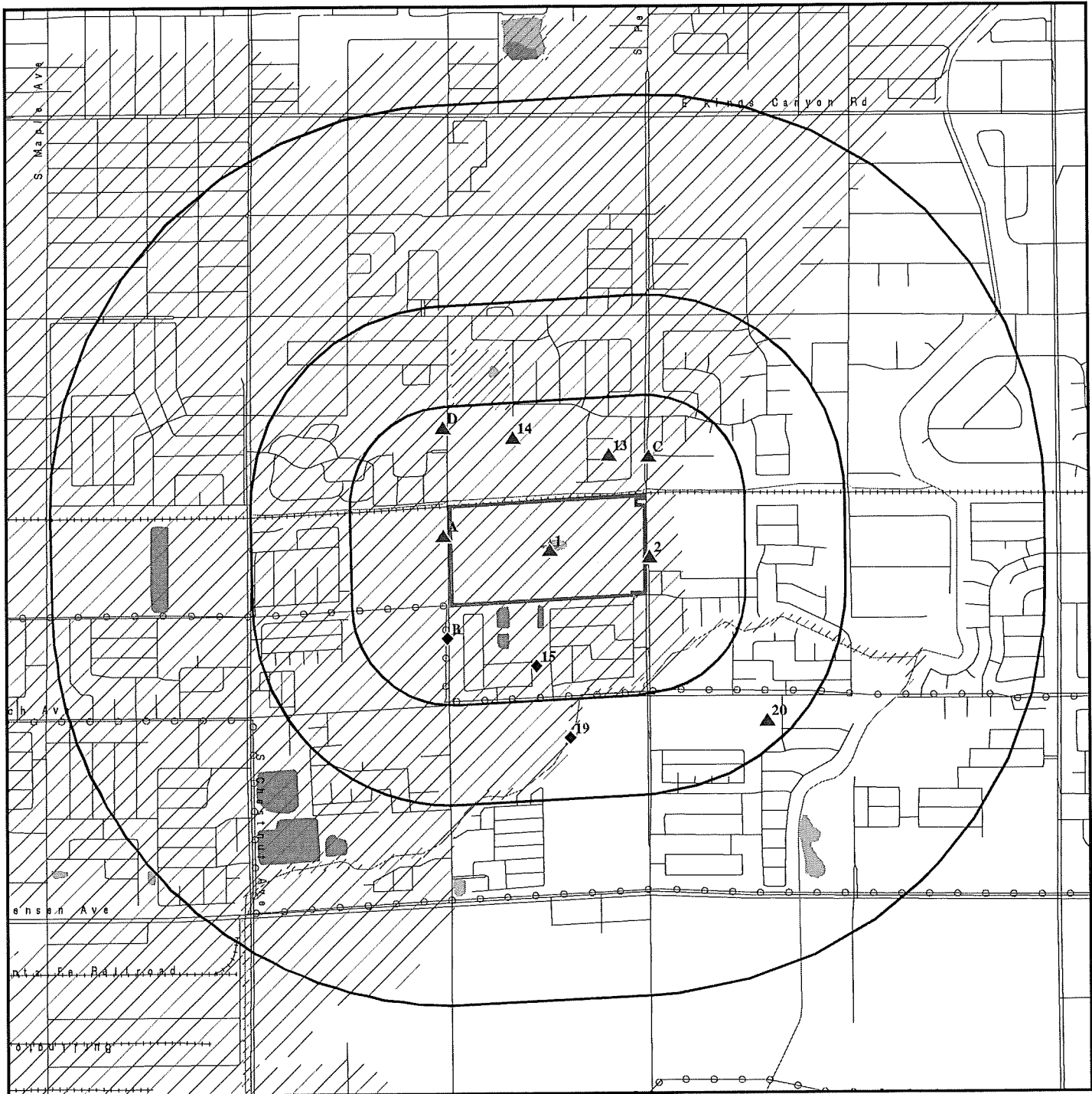
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SERVPRO OF FRESNO SO	5171 E WOODWARD AVE	NNE 0 - 1/8 (0.106 mi.)	13	10


Count: 5 records.


ORPHAN SUMMARY


City	EDR ID	Site Name	Site Address	Zip	Database(s)
FRESNO	S121684501	TRACT 5279 PEACH VILLAS	NWC JENSEN & PEACH AVE	93727	CIWQS
FRESNO	S121663296	PEACH AVE & GROVE AVE	PEACH AVE & GROVE AVE	93727	CIWQS
FRESNO	S122248754	PEACH AVENUE CLEARING AND GRUBBING	PEACH AVENUE AND HUNTINGTON AV	93727	NPDES
FRESNO	S121673442	SHEPARD & PEACH	SHEPARD & PEACH		CIWQS
FRESNO	S114722475	WILLOW VINYARDS	10750 WILLOW N		RGA LUST

OVERVIEW MAP - 5918248.2S




 Target Property

 Sites at elevations higher than or equal to the target property


 Sites at elevations lower than the target property


 Manufactured Gas Plants


 National Priority List Sites


 Dept. Defense Sites


 Indian Reservations BIA


 Power transmission lines

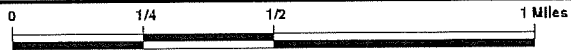
 Special Flood Hazard Area (1%)

 0.2% Annual Chance Flood Hazard

 National Wetland Inventory

 State Wetlands

 Areas of Concern

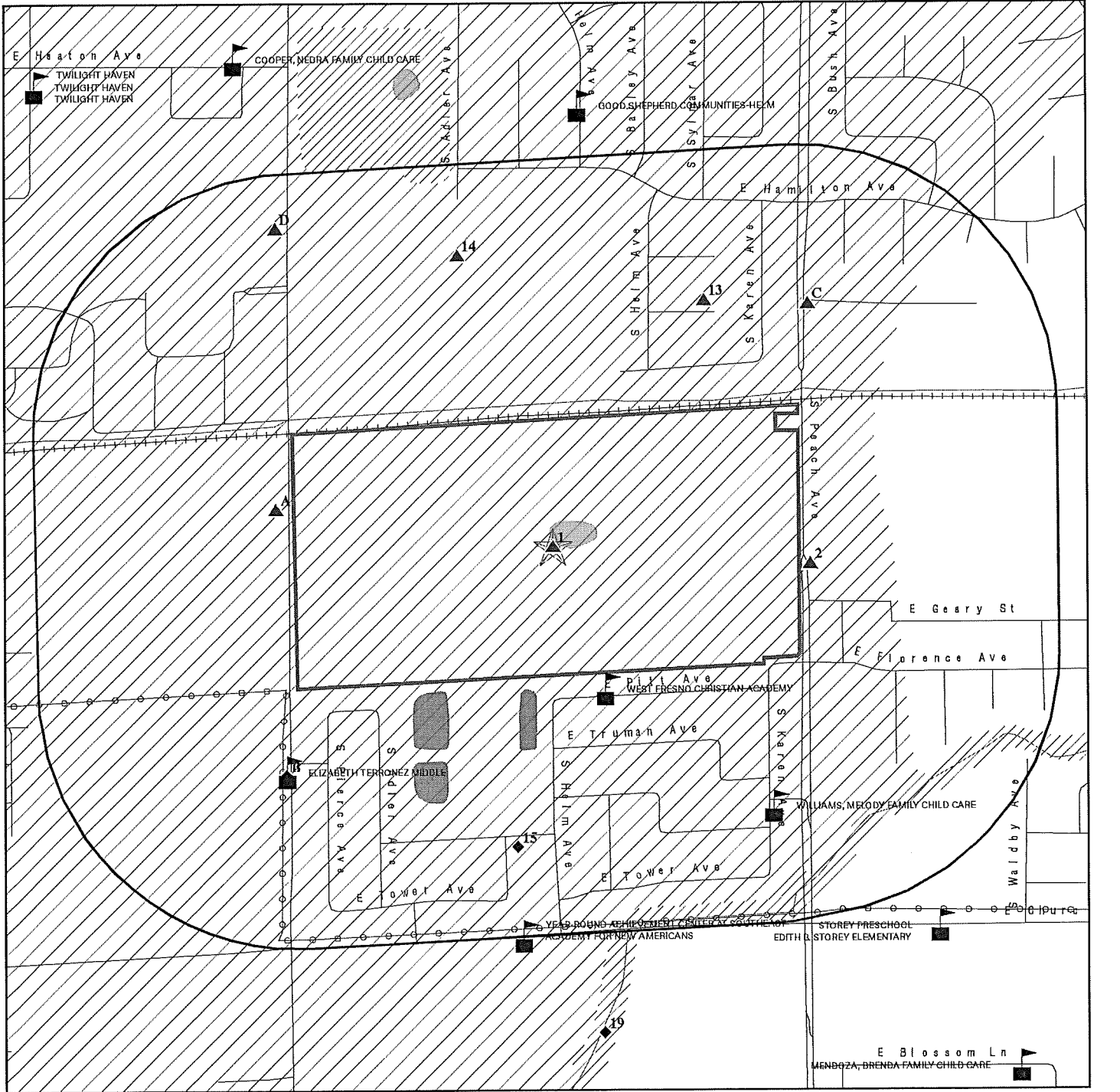


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Willow & Peach
 ADDRESS: 2121 S Willow Ave & 2122 S Peach Ave
 Fresno CA 93725
 LAT/LONG: 36.720174 / 119.72288

CLIENT: Precision Civil Engineering
 CONTACT: Ryan Brosius
 INQUIRY #: 5918248.2s
 DATE: December 27, 2019 6:45 pm

DETAIL MAP - 5918248.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

<p>SITE NAME: Willow & Peach ADDRESS: 2121 S Willow Ave & 2122 S Peach Ave Fresno CA 93725 LAT/LONG: 36.720174 / 119.72288</p>	<p>CLIENT: Precision Civil Engineering CONTACT: Ryan Brosius INQUIRY #: 5918248.2s DATE: December 27, 2019 6:46 pm</p>
--	---

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>STANDARD ENVIRONMENTAL RECORDS</u>								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		1	0	0	NR	NR	1
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		1	0	NR	NR	NR	1
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	0.001		0	NR	NR	NR	NR	0
<i>State- and tribal - equivalent NPL</i>								
RESPONSE	1.000		0	0	0	0	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
ENVIROSTOR	1.000		0	0	2	0	NR	2
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500		1	0	0	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		2	1	NR	NR	NR	3
HIST UST	0.250		4	0	NR	NR	NR	4
CA FID UST	0.250		2	0	NR	NR	NR	2
CERS TANKS	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		2	0	NR	NR	NR	2
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250	1	2	4	NR	NR	NR	7

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
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1 Target Property	OHANESIAN PROPERTY 2122 S PEACH AVE FRESNO, CA 93725	CUPA Listings	S118489096 N/A
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Actual: 307 ft.

[CUPA Listings full text details](#)
 Facility Id FA0284615

2 East < 1/8 0.011 mi. 57 ft.	USDA AGRICULTURE RESEARCH SERVICE 2221 S PEACH FRESNO, CA 93727	CUPA Listings	S106176714 N/A
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Relative: Higher

[Click here for full text details](#)
 CUPA Listings
 Facility Id FA0170542

A3 West < 1/8 0.017 mi. 89 ft.	MARTIN DEDEKIAN 2178 S WILLOW FRESNO, CA 93725	SWEEPS UST HIST UST CA FID UST	S101622383 N/A
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Relative: Higher

[Click here for full text details](#)
 SWEEPS UST
 Status A
 Tank Status A
 Comp Number 56590

CA FID UST
 Facility Id 10008129
 Status A

A4 West < 1/8 0.017 mi. 89 ft.	MARTIN DEDEKIAN 2178 S WILLOW AVE FRESNO, CA 93725	HIST UST	U001592639 N/A
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Relative: Higher

[Click here for full text details](#)
 HIST UST
 Facility Id 00000056590

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
B5 SW < 1/8 0.084 mi. 444 ft.	FUSD-TERRONEZ MIDDLE SCHOOL 2300 S WILLOW AVE FRESNO, CA 93725 Click here for full text details	RCRA NonGen / NLR	1024816549 CAL000318203
Relative: Lower	RCRA NonGen / NLR EPA Id CAL000318203		
B6 SW < 1/8 0.084 mi. 444 ft.	2300 S WILLOW AVE FRESNO, CA 93725 Click here for full text details	RCRA NonGen / NLR	1025854071 CAC003034291
Relative: Lower			
C7 NE < 1/8 0.098 mi. 520 ft.	FRUIT GENETICS AND BREEDING RESE 2021 S PEACH AVE FRESNO, CA 93727 Click here for full text details	HIST UST	S112977836 N/A
Relative: Higher			
C8 NE < 1/8 0.098 mi. 520 ft.	FRUIT GENETICS & BREEDING RESE 2021 S PEACH AVE FRESNO, CA 93727 Click here for full text details	HIST UST	U001592915 N/A
Relative: Higher	HIST UST Facility Id 00000059014		
C9 NE < 1/8 0.098 mi. 520 ft.	USDA ARS 2021 S PEACH AVE FRESNO, CA 93727 Click here for full text details	FINDS ECHO CUPA Listings	1000187655 N/A
Relative: Higher	FINDS Registry ID: 110002625641 ECHO Registry ID 110002625641 CUPA Listings Facility Id FA0170540		

MAP FINDINGS

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
C10	NE	< 1/8	0.098 mi. 520 ft.	U.S.D.A. AGRICULTURE RESE 2021 PEACH FRESNO, CA 93727	LUST HIST CORTESE GERS	S102439513	N/A
				Click here for full text details			
Relative: Higher				LUST Status Case Closed Status Completed - Case Closed Global Id T0601900555			
				HIST CORTESE Reg Id 5T10000572			
C11	NE	< 1/8	0.098 mi. 520 ft.	USDA AGRICULTURE RESEARCH SVC 2021 S PEACH FRESNO, CA 93701	SWEEPS UST CA FID UST	S101581669	N/A
				Click here for full text details			
Relative: Higher				SWEEPS UST Comp Number 1004			
				CA FID UST Facility Id 10004435 Status I			
C12	NE	< 1/8	0.098 mi. 520 ft.	FRESNO HORTICULTURAL FIELD STATION. 2021 SOUTH PEACH AVE FRESNO, CA 93727	SEMS-ARCHIVE RCRA-SQG DOCKET HWC	1015732585	CA7120090397
				Click here for full text details			
Relative: Higher				SEMS-ARCHIVE Site ID 0903879 EPA Id CA7120090397			
				RCRA-SQG EPA Id CA7120090397			
13	NNE	< 1/8	0.106 mi. 560 ft.	SERVPRO OF FRESNO SOUTH 5171 E WOODWARD AVE FRESNO, CA 93702	EDR Hist Cleaner	1018854036	N/A
				Click here for full text details			
Relative: Higher							

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
14 NNW 1/8-1/4 0.162 mi. 857 ft.	PILIBOS RESIDENCE 1919 S WILLOW FRESNO, CA 93727 Click here for full text details	CUPA Listings	S105047313 N/A
Relative: Higher	CUPA Listings Facility Id FA0275101		
15 South 1/8-1/4 0.163 mi. 862 ft.	BEST AUTO SERVICE 2363 S TIMMY FRESNO, CA 93702 Click here for full text details	CUPA Listings	S105773376 N/A
Relative: Lower	CUPA Listings Facility Id FA0276196		
D16 NW 1/8-1/4 0.198 mi. 1045 ft.	1X FRESNO PACIFIC 1818 S WILLOW FRESNO, CA 93727 Click here for full text details	CUPA Listings HAZNET CERS	S112845382 N/A
Relative: Higher	CUPA Listings Facility Id FA0283436 HAZNET GEPaid CAC000788832		
D17 NW 1/8-1/4 0.198 mi. 1045 ft.	FRESNO PACIFIC COLLEGE 1818 S WILLOW AVE FRESNO, CA 93702 Click here for full text details	SWEEPS UST	S106926474 N/A
Relative: Higher	SWEEPS UST Comp Number 13113		
D18 NW 1/8-1/4 0.198 mi. 1045 ft.	FRESNO PACIFIC COLLEGE 1818 S WILLOW FRESNO, CA 93702 Click here for full text details	CUPA Listings	S106175319 N/A
Relative: Higher	CUPA Listings Facility Id FA0272850		

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

19
South
1/4-1/2
0.346 mi.
1828 ft.

PLANNED SOUTHEAST SCHOOL SITE
SOUTHWEST CORNER OF E. CHURCH & S. PEACH AVENUES
FRESNO, CA 93725

ENVIROSTOR S118466279
SCH N/A

[Click here for full text details](#)

Relative:
Lower

ENVIROSTOR
Status No Further Action
Facility Id 60002297

SCH
Facility Id 60002297
Status No Further Action

20
SE
1/4-1/2
0.443 mi.
2341 ft.

CHURCH & ORANGEWOOD PROPOSED SCHOOL SITE
SW CORNER OF E. CHURCH AVE. AND S. ORANGEWOOD DR.
FRESNO, CA 93725

ENVIROSTOR S123133182
SCH N/A

[Click here for full text details](#)

Relative:
Higher

ENVIROSTOR
Status No Further Action
Facility Id 60002701

SCH
Facility Id 60002701
Status No Further Action

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CA	AST	Aboveground Petroleum Storage Tank Facilities	California Environmental Protection Agency	07/06/2016	07/12/2016	09/19/2016
CA	BROWNFIELDS	Considered Brownfields Sites Listing	State Water Resources Control Board	09/23/2019	09/24/2019	11/06/2019
CA	CA BOND EXP. PLAN	Bond Expenditure Plan	Department of Health Services	01/01/1989	07/27/1994	08/02/1994
CA	CA FID UST	Facility Inventory Database	California Environmental Protection Agency	10/31/1994	09/05/1995	09/29/1995
CA	CDL	Clandestine Drug Labs	Department of Toxic Substances Control	06/30/2018	07/16/2019	09/24/2019
CA	CERS	CalEPA Regulated Site Portal Data	California Environmental Protection Agency	08/14/2019	08/14/2019	08/21/2019
CA	CERS HAZ WASTE	CERS HAZ WASTE	CalEPA	08/14/2019	08/14/2019	08/21/2019
CA	CERS TANKS	California Environmental Reporting System (CERS) Tanks	California Environmental Protection Agency	08/14/2019	08/14/2019	08/21/2019
CA	CHMIRS	California Hazardous Material Incident Report System	Office of Emergency Services	05/15/2019	06/24/2019	08/21/2019
CA	CIWQS	California Integrated Water Quality System	State Water Resources Control Board	09/03/2019	09/04/2019	11/05/2019
CA	CORTESE	"Cortese" Hazardous Waste & Substances Sites List	CAL EPA/Office of Emergency Information	09/23/2019	09/24/2019	11/06/2019
CA	CPS-SLIC	Statewide SLIC Cases (GEOTRACKER)	State Water Resources Control Board	09/09/2019	09/09/2019	11/06/2019
CA	CUPA LIVERMORE-PLEASANTON	CUPA Facility Listing	Livermore-Pleasanton Fire Department	05/01/2019	05/14/2019	07/17/2019
CA	CUPA SAN FRANCISCO CO	CUPA Facility Listing	San Francisco County Department of Environmen	10/31/2019	11/01/2019	12/11/2019
CA	DEED	Deed Restriction Listing	DTSC and SWRCB	09/03/2019	09/04/2019	11/05/2019
CA	DRYCLEAN AVAQMD	Antelope Valley Air Quality Management District Drycleaner L	Antelope Valley Air Quality Management Distri	08/28/2019	08/30/2019	10/29/2019
CA	DRYCLEAN SOUTH COAST	South Coast Air Quality Management District Drycleaner Listi	South Coast Air Quality Management District	09/27/2019	10/01/2019	11/07/2019
CA	DRYCLEANERS	Cleaner Facilities	Department of Toxic Substance Control	09/06/2019	10/11/2019	12/11/2019
CA	EMI	Emissions Inventory Data	California Air Resources Board	12/31/2017	06/24/2019	08/22/2019
CA	ENF	Enforcement Action Listing	State Water Resources Control Board	07/19/2019	07/22/2019	09/26/2019
CA	ENVIROSTOR	EnviroStor Database	Department of Toxic Substances Control	07/29/2019	07/31/2019	10/08/2019
CA	Financial Assurance 1	Financial Assurance Information Listing	Department of Toxic Substances Control	07/19/2019	07/23/2019	09/30/2019
CA	Financial Assurance 2	Financial Assurance Information Listing	California Integrated Waste Management Board	08/16/2019	08/20/2019	10/18/2019
CA	HAULERS	Registered Waste Tire Haulers Listing	Integrated Waste Management Board	03/26/2019	03/27/2019	04/30/2019
CA	HAZNET	Facility and Manifest Data	California Environmental Protection Agency	12/31/2017	05/29/2019	07/22/2019
CA	HIST CAL-SITES	Calsites Database	Department of Toxic Substance Control	08/08/2005	08/03/2006	08/24/2006
CA	HIST CORTESE	Hazardous Waste & Substance Site List	Department of Toxic Substances Control	04/01/2001	01/22/2009	04/08/2009
CA	HIST UST	Hazardous Substance Storage Container Database	State Water Resources Control Board	10/15/1990	01/25/1991	02/12/1991
CA	HWP	EnviroStor Permitted Facilities Listing	Department of Toxic Substances Control	08/19/2019	08/20/2019	10/18/2019
CA	HWT	Registered Hazardous Waste Transporter Database	Department of Toxic Substances Control	10/07/2019	10/08/2019	11/07/2019
CA	ICE	ICE	Department of Toxic Substances Control	08/19/2019	08/20/2019	10/18/2019
CA	LDS	Land Disposal Sites Listing (GEOTRACKER)	State Water Quality Control Board	09/09/2019	09/09/2019	11/05/2019
CA	LIENS	Environmental Liens Listing	Department of Toxic Substances Control	08/29/2019	08/30/2019	10/29/2019
CA	LUST	Leaking Underground Fuel Tank Report (GEOTRACKER)	State Water Resources Control Board	09/09/2019	09/09/2019	10/31/2019
CA	LUST REG 1	Active Toxic Site Investigation	California Regional Water Quality Control Boa	02/01/2001	02/28/2001	03/29/2001
CA	LUST REG 2	Fuel Leak List	California Regional Water Quality Control Boa	09/30/2004	10/20/2004	11/19/2004
CA	LUST REG 3	Leaking Underground Storage Tank Database	California Regional Water Quality Control Boa	05/19/2003	05/19/2003	06/02/2003
CA	LUST REG 4	Underground Storage Tank Leak List	California Regional Water Quality Control Boa	09/07/2004	09/07/2004	10/12/2004
CA	LUST REG 5	Leaking Underground Storage Tank Database	California Regional Water Quality Control Boa	07/01/2008	07/22/2008	07/31/2008
CA	LUST REG 6L	Leaking Underground Storage Tank Case Listing	California Regional Water Quality Control Boa	09/09/2003	09/10/2003	10/07/2003
CA	LUST REG 6V	Leaking Underground Storage Tank Case Listing	California Regional Water Quality Control Boa	06/07/2005	06/07/2005	06/29/2005
CA	LUST REG 7	Leaking Underground Storage Tank Case Listing	California Regional Water Quality Control Boa	02/26/2004	02/26/2004	03/24/2004
CA	LUST REG 8	Leaking Underground Storage Tanks	California Regional Water Quality Control Boa	02/14/2005	02/15/2005	03/28/2005
CA	LUST REG 9	Leaking Underground Storage Tank Report	California Regional Water Quality Control Boa	03/01/2001	04/23/2001	05/21/2001
CA	MCS	Military Cleanup Sites Listing (GEOTRACKER)	State Water Resources Control Board	09/09/2019	09/09/2019	11/05/2019
CA	MILITARY PRIV SITES	Military Privatized Sites (GEOTRACKER)	State Water Resources Control Board	09/09/2019	09/09/2019	11/01/2019
CA	MILITARY UST SITES	Military UST Sites (GEOTRACKER)	State Water Resources Control Board	09/09/2019	09/09/2019	11/01/2019

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CA	MINES	Mines Site Location Listing	Department of Conservation	09/09/2019	09/09/2019	11/05/2019
CA	MWMP	Medical Waste Management Program Listing	Department of Public Health	07/19/2019	09/04/2019	11/05/2019
CA	NON-CASE INFO	Non-Case Information Sites (GEOTRACKER)	State Water Resources Control Board	09/09/2019	09/09/2019	11/01/2019
CA	NOTIFY 65	Proposition 65 Records	State Water Resources Control Board	09/16/2019	09/18/2019	11/06/2019
CA	NPDES	NPDES Permits Listing	State Water Resources Control Board	08/12/2019	08/13/2019	10/16/2019
CA	OTHER OIL GAS	Other Oil & Gas Projects Sites (GEOTRACKER)	State Water Resources Control Board	09/09/2019	09/09/2019	11/01/2019
CA	PEST LIC	Pesticide Regulation Licenses Listing	Department of Pesticide Regulation	09/03/2019	09/04/2019	11/05/2019
CA	PFAS	PFAS Contamination Site Location Listing	State Water Resources Control Board	09/09/2019	09/09/2019	11/05/2019
CA	PROC	Certified Processors Database	Department of Conservation	09/09/2019	09/09/2019	11/05/2019
CA	PROD WATER PONDS	Produced Water Ponds Sites (GEOTRACKER)	State Water Resources Control Board	09/09/2019	09/09/2019	11/01/2019
CA	PROJECT	Project Sites (GEOTRACKER)	State Water Resources Control Board	09/09/2019	09/09/2019	11/01/2019
CA	RESPONSE	State Response Sites	Department of Toxic Substances Control	07/29/2019	07/31/2019	10/08/2019
CA	RGA LF	Recovered Government Archive Solid Waste Facilities List	Department of Resources Recycling and Recover	07/01/2013	01/13/2014	01/13/2014
CA	RGA LUST	Recovered Government Archive Leaking Underground Storage Tan	State Water Resources Control Board		07/01/2013	12/30/2013
CA	SAMPLING POINT	Sampling Point ? Public Sites (GEOTRACKER)	State Water Resources Control Board	09/09/2019	09/09/2019	11/01/2019
CA	SAN FRANCISCO AST	Aboveground Storage Tank Site Listing	San Francisco County Department of Public Hea	08/01/2019	08/02/2019	10/11/2019
CA	SCH	School Property Evaluation Program	Department of Toxic Substances Control	07/29/2019	07/31/2019	10/08/2019
CA	SLIC REG 1	Active Toxic Site Investigations	California Regional Water Quality Control Boa	04/03/2003	04/07/2003	04/25/2003
CA	SLIC REG 2	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Regional Water Quality Control Board San Fran	09/30/2004	10/20/2004	11/19/2004
CA	SLIC REG 3	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	California Regional Water Quality Control Boa	05/18/2006	05/18/2006	06/15/2006
CA	SLIC REG 4	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Region Water Quality Control Board Los Angele	11/17/2004	11/18/2004	01/04/2005
CA	SLIC REG 5	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Regional Water Quality Control Board Central	04/01/2005	04/05/2005	04/21/2005
CA	SLIC REG 6L	SLIC Sites	California Regional Water Quality Control Boa	09/07/2004	09/07/2004	10/12/2004
CA	SLIC REG 6V	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Regional Water Quality Control Board, Victory	05/24/2005	05/25/2005	06/16/2005
CA	SLIC REG 7	SLIC List	California Regional Quality Control Board, Co	11/24/2004	11/29/2004	01/04/2005
CA	SLIC REG 8	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	California Region Water Quality Control Board	04/03/2008	04/03/2008	04/14/2008
CA	SLIC REG 9	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	California Regional Water Quality Control Boa	09/10/2007	09/11/2007	09/28/2007
CA	SPILLS 90	SPILLS90 data from FirstSearch	FirstSearch	06/06/2012	01/03/2013	02/22/2013
CA	SWEEPS UST	SWEEPS UST Listing	State Water Resources Control Board	06/01/1994	07/07/2005	08/11/2005
CA	SWF/LF (SWIS)	Solid Waste Information System	Department of Resources Recycling and Recover	08/12/2019	08/13/2019	10/09/2019
CA	SWRCY	Recycler Database	Department of Conservation	09/09/2019	09/09/2019	11/07/2019
CA	TOXIC PITS	Toxic Pits Cleanup Act Sites	State Water Resources Control Board	07/01/1995	08/30/1995	09/26/1995
CA	UIC	UIC Listing	Deaprtment of Conservation	08/20/2019	08/20/2019	11/18/2019
CA	UIC GEO	Underground Injection Control Sites (GEOTRACKER)	State Water Resource Control Board	09/09/2019	09/09/2019	11/01/2019
CA	UST	Active UST Facilities	SWRCB	09/09/2019	09/09/2019	10/31/2019
CA	UST CLOSURE	Proposed Closure of Underground Storage Tank (UST) Cases	State Water Resources Control Board	09/06/2019	09/09/2019	10/31/2019
CA	UST MENDOCINO	Mendocino County UST Database	Department of Public Health	08/20/2019	09/09/2019	10/31/2019
CA	VCP	Voluntary Cleanup Program Properties	Department of Toxic Substances Control	07/29/2019	07/31/2019	10/08/2019
CA	WASTEWATER PITS	Oil Wastewater Pits Listing	RWQCB, Central Valley Region	05/08/2018	07/11/2018	09/13/2018
CA	WDR	Waste Discharge Requirements Listing	State Water Resources Control Board	09/09/2019	09/09/2019	11/06/2019
CA	WDS	Waste Discharge System	State Water Resources Control Board	06/19/2007	06/20/2007	06/29/2007
CA	WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)	State Water Resources Control Board	09/09/2019	09/09/2019	11/01/2019
CA	WIP	Well Investigation Program Case List	Los Angeles Water Quality Control Board	07/03/2009	07/21/2009	08/03/2009
CA	WMUDS/SWAT	Waste Management Unit Database	State Water Resources Control Board	04/01/2000	04/10/2000	05/10/2000
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	09/30/2017	05/08/2018	07/20/2018
US	ABANDONED MINES	Abandoned Mines	Department of Interior	09/10/2019	09/10/2019	10/17/2019
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2015	02/22/2017	09/28/2017

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2005	08/07/2009	10/22/2009
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	01/12/2017	03/05/2019	11/11/2019
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	09/30/2019	10/09/2019	12/20/2019
US	CORRACTS	Corrective Action Report	EPA	12/16/2019	12/16/2019	12/20/2019
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	05/31/2018	07/26/2018	10/05/2018
US	DOD	Department of Defense Sites	USGS	12/31/2005	11/10/2006	01/11/2007
US	DOT OPS	Incident and Accident Data	Department of Transportation, Office of Pipeli	07/01/2019	07/31/2019	10/24/2019
US	Delisted NPL	National Priority List Deletions	EPA	10/25/2019	11/07/2019	11/20/2019
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	07/06/2019	07/09/2019	10/02/2019
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	09/09/2019	09/09/2019	09/23/2019
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	04/03/2019	04/05/2019	05/14/2019
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	04/02/2018	04/11/2018	11/06/2019
US	FEMA UST	Underground Storage Tank Listing	FEMA	08/27/2019	08/28/2019	11/11/2019
US	FINDS	Facility Index System/Facility Registry System	EPA	08/12/2019	09/04/2019	12/03/2019
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	05/15/2019	05/21/2019	08/08/2019
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	08/19/2019	08/20/2019	11/11/2019
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	08/08/2017	09/11/2018	09/14/2018
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	06/24/2019	06/26/2019	09/23/2019
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Serivces, Indian	04/01/2014	08/06/2014	01/29/2015
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	04/11/2019	07/29/2019	10/17/2019
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	04/16/2019	07/29/2019	10/17/2019
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	04/12/2019	07/29/2019	10/17/2019
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	04/08/2019	07/30/2019	10/17/2019
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	05/01/2019	07/29/2019	10/17/2019
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	07/02/2019	10/16/2019	10/24/2019
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	05/02/2019	10/22/2019	11/11/2019
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	04/08/2019	07/29/2019	10/17/2019
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	04/11/2019	07/30/2019	10/17/2019
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	04/16/2019	07/30/2019	10/17/2019
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	04/12/2019	07/29/2019	10/17/2019
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	04/08/2019	07/29/2019	10/17/2019
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	05/01/2019	07/29/2019	10/17/2019
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	05/02/2019	07/29/2019	10/17/2019
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	05/02/2019	10/22/2019	11/11/2019
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	04/08/2019	07/29/2019	10/17/2019

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl Date	Active Date
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
US	INDIAN VCP R7	Voluntary Cleanup Priority Listing	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	10/25/2019	11/07/2019	11/20/2019
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	10/25/2019	11/07/2019	11/20/2019
US	LUCIS	Land Use Control Information System	Department of the Navy	08/13/2019	08/20/2019	08/26/2019
US	MINES MRDS	Mineral Resources Data System	USGS	04/06/2018	10/21/2019	10/24/2019
US	MINES VIOLATIONS	MSHA Violation Assessment Data	DOL, Mine Safety & Health Admi	09/17/2019	09/18/2019	12/03/2019
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	06/20/2019	06/20/2019	08/08/2019
US	NPL	National Priority List	EPA	10/25/2019	11/07/2019	11/20/2019
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	PADS	PCB Activity Database System	EPA	10/09/2019	10/11/2019	12/20/2019
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	05/24/2017	11/30/2017	12/15/2017
US	PRP	Potentially Responsible Parties	EPA	10/25/2019	11/07/2019	11/21/2019
US	Proposed NPL	Proposed National Priority List Sites	EPA	10/25/2019	11/07/2019	11/20/2019
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RADINFO	Radiation Information Database	Environmental Protection Agency	07/01/2019	07/01/2019	09/23/2019
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	12/16/2019	12/16/2019	12/20/2019
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	12/16/2019	12/16/2019	12/20/2019
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	12/16/2019	12/16/2019	12/20/2019
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	12/16/2019	12/16/2019	12/20/2019
US	RCRA-VSQG	RCRA - Very Small Quantity Generators (Formerly Conditionall	Environmental Protection Agency	12/16/2019	12/16/2019	12/20/2019
US	RMP	Risk Management Plans	Environmental Protection Agency	04/25/2019	05/02/2019	05/23/2019
US	ROD	Records Of Decision	EPA	10/25/2019	11/07/2019	11/20/2019
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	01/01/2017	02/03/2017	04/07/2017
US	SEMS	Superfund Enterprise Management System	EPA	10/25/2019	11/07/2019	11/21/2019
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	10/25/2019	11/07/2019	11/21/2019
US	SSTS	Section 7 Tracking Systems	EPA	09/30/2018	04/24/2019	08/08/2019
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2017	11/16/2018	11/21/2019
US	TSCA	Toxic Substances Control Act	EPA	12/31/2016	06/21/2017	01/05/2018
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	08/01/2019	08/21/2019	11/11/2019
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	06/03/2019	06/04/2019	08/26/2019
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	06/11/2019	06/13/2019	09/03/2019
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	08/19/2019	08/20/2019	08/26/2019
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	09/23/2019	09/24/2019	12/20/2019
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	06/11/2019	06/13/2019	09/03/2019
US	US INST CONTROL	Sites with Institutional Controls	Environmental Protection Agency	08/19/2019	08/20/2019	08/26/2019
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	08/01/2019	08/27/2019	11/11/2019
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	12/05/2005	02/29/2008	04/18/2008
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	UXO	Unexploded Ordnance Sites	Department of Defense	12/31/2017	01/17/2019	04/01/2019

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CT	CT MANIFEST	Hazardous Waste Manifest Data	Department of Energy & Environmental Protecti	05/14/2019	05/14/2019	08/05/2019
NJ	NJ MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2018	04/10/2019	05/16/2019
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	01/01/2019	05/01/2019	06/21/2019
PA	PA MANIFEST	Manifest Information	Department of Environmental Protection	06/30/2018	07/19/2019	09/10/2019
RI	RI MANIFEST	Manifest information	Department of Environmental Management	12/31/2018	10/02/2019	12/10/2019
WI	WI MANIFEST	Manifest Information	Department of Natural Resources	05/31/2018	06/19/2019	09/03/2019
US	AHA Hospitals	Sensitive Receptor: AHA Hospitals	American Hospital Association, Inc.			
US	Medical Centers	Sensitive Receptor: Medical Centers	Centers for Medicare & Medicaid Services			
US	Nursing Homes	Sensitive Receptor: Nursing Homes	National Institutes of Health			
US	Public Schools	Sensitive Receptor: Public Schools	National Center for Education Statistics			
US	Private Schools	Sensitive Receptor: Private Schools	National Center for Education Statistics			
CA	Daycare Centers	Sensitive Receptor: Licensed Facilities	Department of Social Services			
US	Flood Zones	100-year and 500-year flood zones	Emergency Management Agency (FEMA)			
US	NWI	National Wetlands Inventory	U.S. Fish and Wildlife Service			
CA	State Wetlands	Wetland Inventory	Department of Fish and Wildlife			
US	Topographic Map		U.S. Geological Survey			
US	Oil/Gas Pipelines		Endeavor Business Media			
US	Electric Power Transmission Line Data		Endeavor Business Media			

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

WILLOW & PEACH
2121 S WILLOW AVE & 2122 S PEACH AVE
FRESNO, CA 93725

TARGET PROPERTY COORDINATES

Latitude (North): 36.720174 - 36° 43' 12.63"
Longitude (West): 119.72288 - 119° 43' 22.37"
Universal Transverse Mercator: Zone 11
UTM X (Meters): 256811.7
UTM Y (Meters): 4067085.2
Elevation: 307 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 5603192 MALAGA, CA
Version Date: 2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

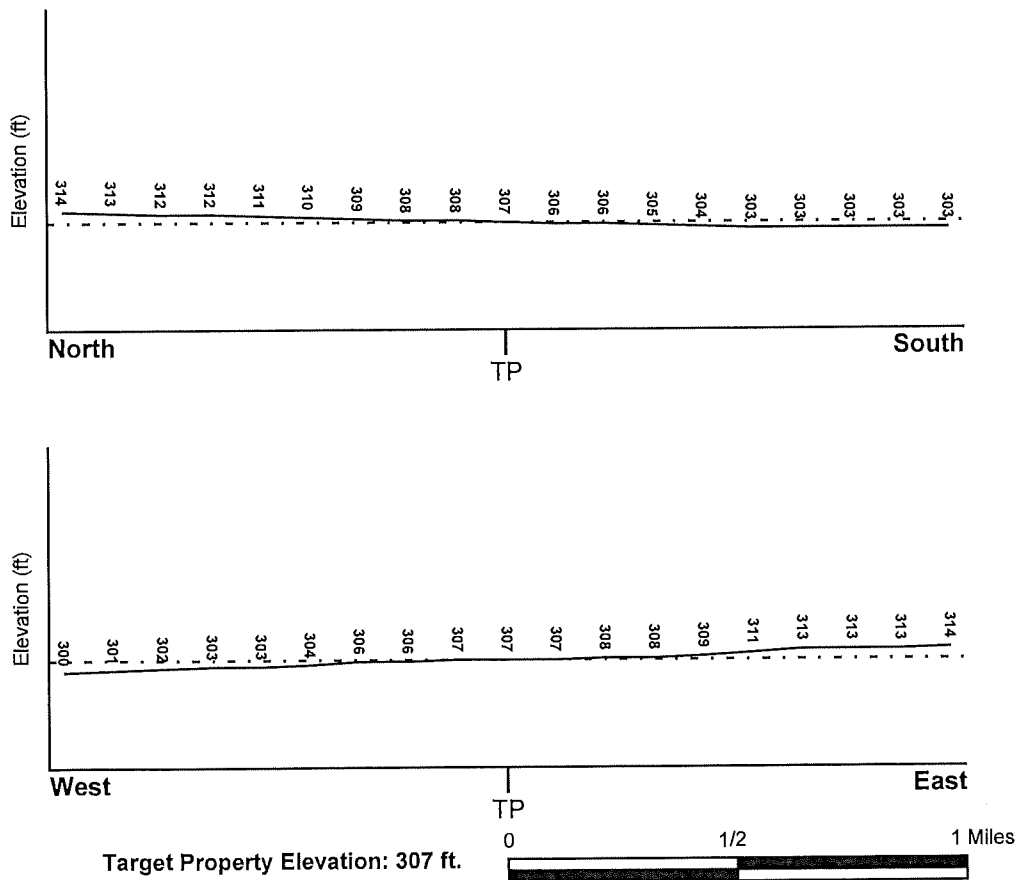
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
06019C2130H	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
Not Reported	

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
MALAGA	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data:*

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

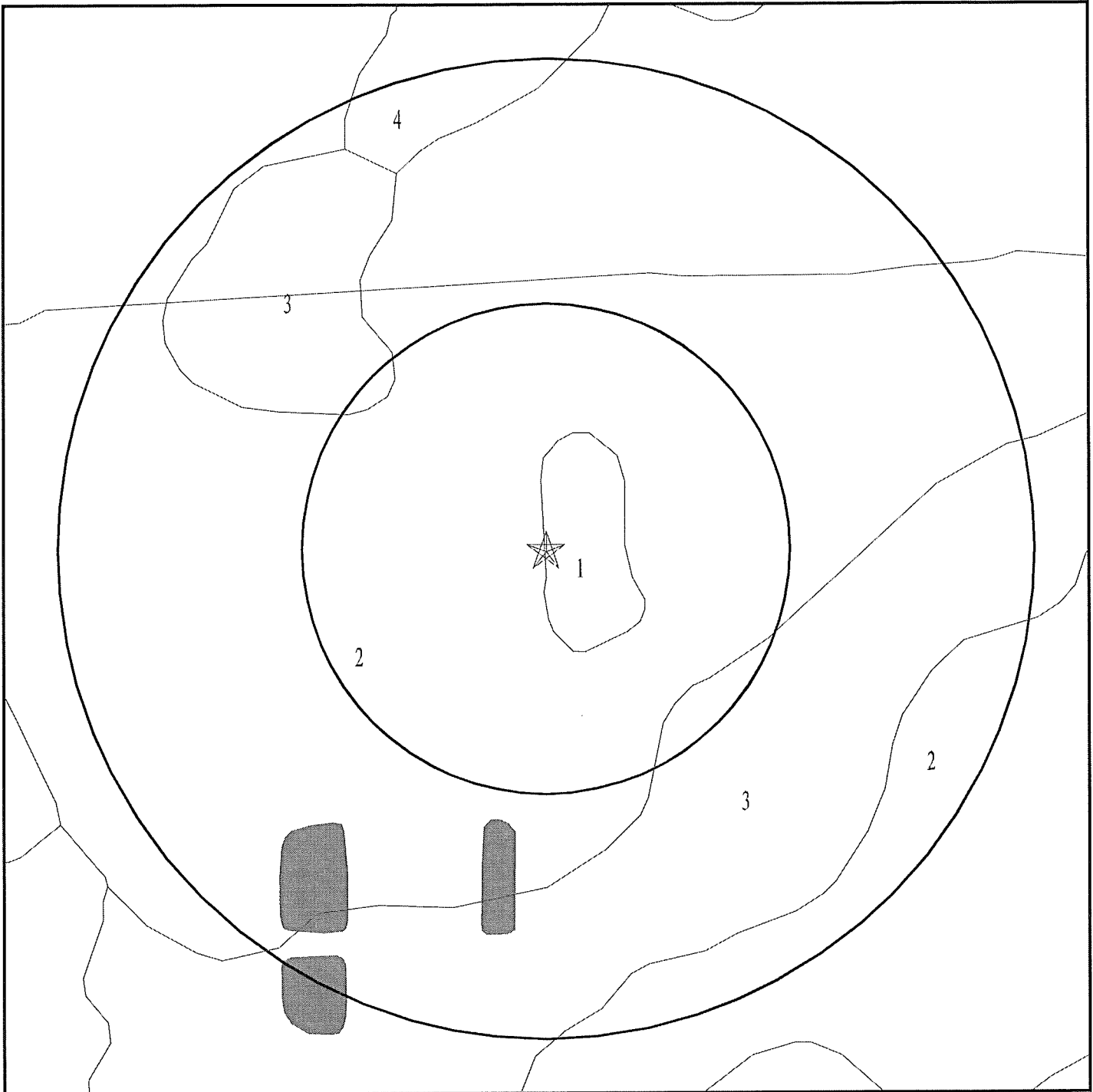
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q (decoded above as Era, System & Series)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5918248.2s



- ★ Target Property
- ∨ SSURGO Soil
- ∨ Water



SITE NAME: Willow & Peach
ADDRESS: 2121 S Willow Ave & 2122 S Peach Ave
Fresno CA 93725
LAT/LONG: 36.720174 / 119.72288

CLIENT: Precision Civil Engineering
CONTACT: Ryan Brosius
INQUIRY #: 5918248.2s
DATE: December 27, 2019 6:46 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: HANFORD

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1
2	16 inches	72 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1

Soil Map ID: 2

Soil Component Name: RAMONA

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1
2	11 inches	24 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1
3	24 inches	38 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1
4	38 inches	59 inches	coarse sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1

Soil Map ID: 3

Soil Component Name: RAMONA

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1 Min: 0.1	Max: Min:
2	11 inches	24 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1 Min: 0.1	Max: Min:
3	24 inches	40 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1 Min: 0.1	Max: Min:
4	40 inches	53 inches	cemented	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1 Min: 0.1	Max: Min:

Soil Map ID: 4

Soil Component Name: GREENFIELD

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1
2	16 inches	38 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1
3	38 inches	59 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000176807	1/8 - 1/4 Mile South
2	USGS40000176895	1/4 - 1/2 Mile NW
5	USGS40000176971	1/2 - 1 Mile North
9	USGS40000176941	1/2 - 1 Mile NW
10	USGS40000176980	1/2 - 1 Mile North
A12	USGS40000176946	1/2 - 1 Mile NE
C19	USGS40000176734	1/2 - 1 Mile SW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

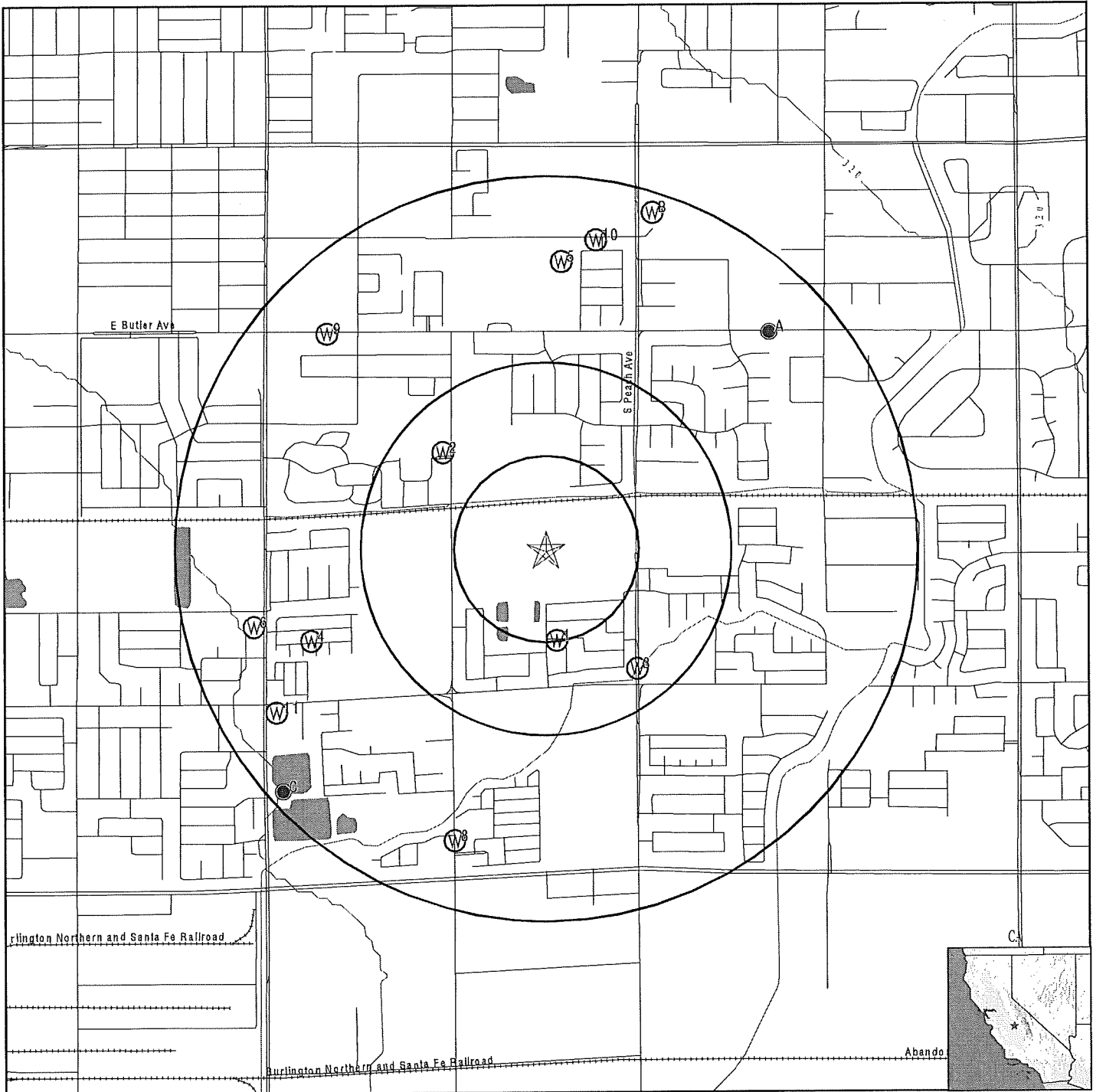
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
3	12242	1/4 - 1/2 Mile SE
4	12163	1/2 - 1 Mile WSW
6	12159	1/2 - 1 Mile WSW
A7	12218	1/2 - 1 Mile NE
8	12247	1/2 - 1 Mile SSW
11	12246	1/2 - 1 Mile WSW
B13	12213	1/2 - 1 Mile NNE
B14	12210	1/2 - 1 Mile NNE
B15	12206	1/2 - 1 Mile NNE
B16	23285	1/2 - 1 Mile NNE
B17	12212	1/2 - 1 Mile NNE
C18	23272	1/2 - 1 Mile SW

PHYSICAL SETTING SOURCE MAP - 5918248.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: Willow & Peach
 ADDRESS: 2121 S Willow Ave & 2122 S Peach Ave
 Fresno CA 93725
 LAT/LONG: 36.720174 / 119.72288

CLIENT: Precision Civil Engineering
 CONTACT: Ryan Brosius
 INQUIRY #: 5918248.2s
 DATE: December 27, 2019 6:46 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID	Direction	Distance	Elevation	Database	EDR ID Number
1	South	1/8 - 1/4 Mile	Lower	FED USGS	USGS40000176807
	Click here for full text details				
2	NW	1/4 - 1/2 Mile	Higher	FED USGS	USGS40000176895
	Click here for full text details				
3	SE	1/4 - 1/2 Mile	Higher	CA WELLS	12242
	Click here for full text details				
4	WSW	1/2 - 1 Mile	Lower	CA WELLS	12163
	Click here for full text details				
5	North	1/2 - 1 Mile	Higher	FED USGS	USGS40000176971
	Click here for full text details				
6	WSW	1/2 - 1 Mile	Lower	CA WELLS	12159
	Click here for full text details				
A7	NE	1/2 - 1 Mile	Higher	CA WELLS	12218
	Click here for full text details				
8	SSW	1/2 - 1 Mile	Lower	CA WELLS	12247
	Click here for full text details				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
9 NW 1/2 - 1 Mile Higher	Click here for full text details	FED USGS	USGS40000176941
10 North 1/2 - 1 Mile Higher	Click here for full text details	FED USGS	USGS40000176980
11 WSW 1/2 - 1 Mile Lower	Click here for full text details	CA WELLS	12246
A12 NE 1/2 - 1 Mile Higher	Click here for full text details	FED USGS	USGS40000176946
B13 NNE 1/2 - 1 Mile Higher	Click here for full text details	CA WELLS	12213
B14 NNE 1/2 - 1 Mile Higher	Click here for full text details	CA WELLS	12210
B15 NNE 1/2 - 1 Mile Higher	Click here for full text details	CA WELLS	12206
B16 NNE 1/2 - 1 Mile Higher	Click here for full text details	CA WELLS	23285
B17 NNE 1/2 - 1 Mile Higher	Click here for full text details	CA WELLS	12212

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

C18
SW
1/2 - 1 Mile
Lower

[Click here for full text details](#)

CA WELLS 23272

C19
SW
1/2 - 1 Mile
Lower

[Click here for full text details](#)

FED USGS USGS40000176734

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
93725	21	1

Federal EPA Radon Zone for FRESNO County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L. and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 93725

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.400 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: Department of Fish and Wildlife

Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database

Source: Department of Water Resources

Telephone: 916-651-9648

California Drinking Water Quality Database

Source: Department of Public Health

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

Oil and Gas well locations in the state.

California Earthquake Fault Lines

Source: California Division of Mines and Geology

The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon

Source: Department of Public Health

Telephone: 916-210-8558

Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX D

**INTERVIEW AND
REGULATORY AGENCY DOCUMENTATION**



INTERVIEW CONVERSATION RECORD

Date: 1/9/2020 Time: 12:00 PM

To From Steve Ohanesian / Bob Ohanesian

Company: Property owners

Address: 2121 S Willow Ave & 2122 S Peach Ave

Phone No. _____

Project Name: Peach and Willow Project No: 19-249

History of the property/ age of structures

Residences were located on the site. About 10 years ago the western residence burned down along Willow. The residences along the eastern border were removed about 20 years ago.

Are any Aboveground storage tanks located onsite?

The property along Willow contained a diesel tank for farm equipment. The tank was removed in the past.

Are any Underground storage tanks located onsite?

Unknown

Is there any Buried debris located onsite?

Unknown

Does the site contain Fill material?

Clean fill dirt was brought in during the onsite soil cleanup along Willow and on the Peach side.

Does the site contain Burn areas?

Unknown

Are any Environmental enforcement actions pending or ongoing?

Has there been any Hazardous materials and/or petroleum product releases or incidents onsite?

No, not that they know of.

Are Chemicals stored onsite?

No



EDMUND G. BRUNN JR.
GOVERNOR

MATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Central Valley Regional Water Quality Control Board

23 December 2015

Steve Ohanesian
John Ohanesian Estate
2122 S. Peach Avenue
Fresno, CA 93725

PRELIMINARY SITE INVESTIGATION, JOHN OHANESIAN ESTATE, 2122 S. PEACH AVENUE, FRESNO, FRESNO COUNTY

We reviewed the subject report prepared by Willbanks Environmental Consulting, Inc., and dated 24 November 2015. The report summarizes a preliminary soil assessment and excavation of degraded soil.

A tarry substance was encountered during the demolition of a concrete structure at the site. Laboratory analytical results indicated that the substance resembled crude oil with no benzene or naphthalene detected. The concrete structure was removed and the tarry substance disposed of at a licensed facility. The area below the structure was excavated to a depth of 10 feet. Degraded soil not below the structure was removed to a minimum depth of five feet and the highest concentration remaining at five feet was 1,900 milligrams per kilogram. The highest concentration of total petroleum hydrocarbons at 10 feet was 6,900 milligrams per kilogram. Soil borings were drilled from 20 to 50 feet below site grade. No groundwater was encountered. Total petroleum hydrocarbon as crude oil concentrations below 15 feet were below 1,000 milligrams per kilogram. Benzene, toluene, ethylbenzene, xylenes, and naphthalene have not been detected in any of the samples. The consultant does not recommend any further action.

Comments

Remaining concentrations of petroleum hydrocarbons above a depth of 10 feet do not pose a threat to human health from contact based on San Francisco Regional Water Quality Control Board screening levels for motor oil and heavier petroleum hydrocarbons. No volatile petroleum constituents were detected that could pose a threat to indoor air quality and all degraded soil has been removed above a depth of five feet.

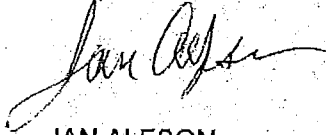
It appears that assessment and remediation required by site conditions has been completed. Provided the information you submitted to this agency was accurate and representative, no further assessment or remediation is required for this site. Please be advised that this letter

KARL E. LONGLEY SQD, P.E., CHAIR | PAMELA C. CREEDON P.E., BCCE, EXECUTIVE OFFICER

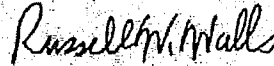
1685 E Street, Fresno, CA 93706 | www.waterboards.ca.gov/centralvalley

does not relieve you of any liability under the California Water Code or Health and Safety Code for past, present, or future operations at the site. Nor does it relieve you of any responsibility to clean up existing, additional, or previously unidentified conditions at the site that cause or threaten to cause degradation or nuisance or otherwise pose a threat to water quality or public health.

If you have any questions, please contact Jan Alfson at 559-488-4345.



JAN ALFSON
Engineering Geologist
PG No. 4435



RUSSELL W. WALLS
Senior Engineer
RCE No. 43140

JA:ja

cc: Fresno County Environmental Health Department, Fresno
Noelle Willbanks, Willbanks Environmental Consulting, Inc., 755 N. Peach Ave, Suite G-13,
Clovis, CA 93611



WILLBANKS
ENVIRONMENTAL CONSULTING, INC
755 North Peach Ave, Ste. G-13 • Clovis, CA 93611
(559) 797-4181 Office • www.WillbanksEnvCo.com

November 23, 2015

WEC Project 15.018

Mr. Steve Ohanesian
John Ohanesian Estate
2122 South Peach Avenue
Fresno, California 93725

Subject: Preliminary Site Investigation
Ohanesian Property
2122 South Peach Avenue
Fresno, California

Dear Mr. Ohanesian:

Willbanks Environmental Consulting, Inc. (WEC) has prepared this Preliminary Site Investigation report for the John Ohanesian Estate (Estate) property located at 2122 South Peach Avenue, Fresno, California (Site). The investigation was requested by the Estate after a heavy tar-like substance was discovered by a contractor during the demolition of an above ground concrete structure. This report documents characterization and removal of the substance, including the extent of soil removal, boring and soil logs, and results of chemical analyses of surface and subsurface soils.

Please contact our office at (559) 797-4181, if you have questions regarding this report.

Sincerely,
Willbanks Environmental Consulting, Inc.

DRAFT

Kiersti R. Ford, G.I.T.
Staff Geologist

DRAFT

Noelle Willbanks, P.E.
Principal Engineer

cc: WEC

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APPENDICES

Appendix A Boring Logs
Appendix B Laboratory Analytical Reports



**PRELIMINARY SITE INVESTIGATION REPORT
JOHN OHANESIAN ESTATE
2122 SOUTH PEACH AVENUE, FRESNO, CALIFORNIA**

1.0 INTRODUCTION

Willbanks Environmental Consulting, Inc. (WEC) has prepared this report summarizing the results of a preliminary surficial and subsurface soils investigation of the property located at 2122 South Peach Avenue, Fresno, California (Site), owned by the John Ohanesian Estate (Estate).

The investigation was requested by the Estate after a black, bituminous substance was discovered by a contractor during the demolition of an above ground concrete structure and its foundation. Based on the proximity of the bituminous material to the structure, it is assumed that the structure was once used to contain a petroleum-based material. This report documents characterization and removal of the substance, including the extent of soil removal, boring and soil logs, and results of chemical analyses of surface and subsurface soils.

2.0 SETTING

The Site is located on the west side of Peach Avenue, in Fresno, and is surrounded primarily by residential, ag-industrial and agricultural lands (Figure 1). The Site is located in the northeast quarter of Section 18, Township 14 South, Range 21 East, as depicted on the Malaga, California 7.5-minute quadrangle map. The elevation of the Site is approximately 305 feet above mean sea level.

3.0 REGIONAL GEOLOGY AND HYDROGEOLOGY

The Site is located in the Central Valley of California, which is a 430 mile long and 74 mile wide depression that lies between the Sierra Nevada and the Coast Ranges. The elevation at the northern and southern extents of the valley is approximately 400 feet, but it is slightly below sea level at its center.

This large basin is filled with sands and gravel up to 30,000 feet deep that lie upon the Sierran basement rocks that extend downward at an angle from the western slope of the Sierra Nevada. The sediments in the valley have accumulated as alluvial deposits that were washed out of the surrounding mountains over the last 5 million years (Blevins, 2002).

Groundwater is encountered beneath the Site at a depth of approximately 100 feet below ground surface (bgs) according to the Department of Water Resources web page.

4.0 FIELD INVESTIGATION

On April 22, 2015, WEC received a soil sample from the demolition contractor, Caglia Demolition, of Madera, California. WEC had the sample analyzed for Total Petroleum Hydrocarbons, benzene, toluene, ethylbenzene, and xylenes (collectively BTEX), and petroleum



aromatic hydrocarbons (PAHs). Initial sample results indicated the presence of PAHs and petroleum in the "crude oil" range. Sample results are included in Table 1 and in the Appendix.

Caglia removed most of the visually impacted soils and disposed of the tarry substance and the impacted soils off-site at a licensed facility. The central area beneath the concrete structure was excavated to approximately 10 feet below grade, and approximately 10 feet laterally beyond the extents of the original structure.

A limited soils investigation was requested by the Estate to evaluate the lateral and vertical extent of petroleum hydrocarbons remaining in the soil. On June 26, 2015, four soil borings were advanced to depths of between 20 and 50 feet bgs in the vicinity of the previous concrete containment using a CME-75 drill-rig advancing 8-inch diameter hollow-stem auger. Borings B-1 was located inside of the excavation starting at approximately 10-feet below surrounding grade and borings B-2, B-3, and B-4 were located around the excavation at grade (Figure 3). During the advancement of the borings, one surface sample (S1) was collected from the south side wall of the excavation.

Eight (8) confirmation surface samples (S2-S9) were taken after further excavation of the source. The eight confirmation samples yielded concentrations of petroleum as crude oil ranging from undetectable to 6,900 mg/kg. The Estate requested additional borings to reevaluate the lateral and vertical extent of the impacted soils.

An additional investigation was conducted on September 14, 2015. This investigation consisted of 12 soil borings to a maximum depth of 23 feet below ground surface. Samples were collected at 2.5-foot intervals and field screened for the presence of petroleum compounds. Borings B-5 through B-14 were advanced from within the excavation, 10 to 13 feet below surrounding grade (Figure 3). Borings B-15 and B-16 were located outside of the excavation, at grade. A field-sampling device equipped with a flame-ionization detector (FID) was used to evaluate the possible presence of petroleum in the soil and select samples for further laboratory analyses.

4.1 SOIL SAMPLING METHODS

Samples were collected at 5-foot intervals beginning at 5 feet bgs to the full depth of each boring during the first sampling round and at 2.5-foot intervals during the second boring investigation. Samples were collected with a California-modified split spoon sampler lined with three, 2-inch diameter by 6-inch stainless steel sleeves. The soil samples were used for lithologic logging of the subsurface soil and were field-screened with a portable FID prior to sealing each sample tube. Each of the samples were covered in Teflon®, capped with plastic end caps, labeled, placed in a plastic bags, and placed in an insulated ice-chest with ice. The samples were transferred by over-night courier to BC Laboratories in Bakersfield, California for analysis of petroleum in the crude oil range, BTEX, and naphthalene. The "crude oil" test was selected because it covers the most complete spectrum of petroleum hydrocarbons (i.e., very light or low-chain-length to very heavy or long-chain hydrocarbons).



4.2 ON-SITE SOIL AND GROUNDWATER CONDITIONS

Odor and discoloration were only noted in boring B-1 which was located inside the excavation. FID readings taken during the investigation indicated low levels (< 3-4 ppm) of hydrocarbons in the soils from all borings. No odors or discoloration were noted in any of the soils taken from borings B-2 and B-3. Boring B-4 displayed minor discoloration and minimal odors at depths below 10 feet (analyses at these depths from B-4 indicated no detectable concentrations of petroleum). The additional Borings B-5, B-6, B-11, B-12, B-13, and B-14, located inside the excavation, showed discoloration in the soil and positive field indicators for crude oil. Borings B-7, B-8, B-9, and B-10, located in the excavation, did not have soil discoloration and the samples did not display positive field indicators for crude oil. Borings B-15 and B-16, located outside the excavation at grade, did not display soil discoloration and none of the samples demonstrated positive field indicators.

No groundwater was encountered during the investigation to 60 feet below site grade. The soils present beneath the Site are generally soft, moist, medium brown silts with fine sands as well as low plasticity clays. Boring logs are included in Appendix A.

5.0 RESULTS OF CHEMICAL ANALYSES OF SOILS

The initial sample collected by Caglia (Soils -1) was analyzed for BTEX, crude oil, and Polynuclear Aromatic Hydrocarbons (PAHs). The analyses of the soil sample indicated the presence of low concentrations of PAHs with elevated levels of crude oil.

The samples from the soil borings were analyzed for various constituents based on depth and field observations such as odors, discoloration, and FID (< 3-4 ppm) readings. See Table 1 for sample analyses and the Appendix for laboratory analytical reports.

The eight (8) confirmation surface samples (S2-S9) that were collected after further excavation of the source were all analyzed for crude oil (Figure 3). Results of chemical analyses are summarized in Table 1. BTEX and Naphthalene were not detected in any of the samples analyzed. Concentrations of petroleum, reported as "crude oil" ranging from "none detected" to 6,900 mg/kg were detected in samples taken from the exposed soil within the excavation.

An inquiry was made to BC Laboratories, the analytical laboratory that conducted chemical analyses as part of this investigation. According to BC Laboratories, the hydrocarbons detected in soils have hydrocarbon chain lengths in the range of C18 to C40. These long-chain hydrocarbons are typically non-volatile and semi-solid, similar to or including paraffin waxes, petroleum coke, and asphalt.

6.0 CONCLUSIONS

Based on field observations, the petroleum substance appeared to have impacted shallow soils in the south to southeast directions from the concrete containment structure. Impact was not noted on the north or west or east walls of the foundation-removal excavation.



Laboratory analyses indicate that the petroleum material is consistent with an asphalt-like material comprised of long hydrocarbon chains; semi-solid in nature and likely very immobile in the subsurface.

The subsurface soils beneath the Site, 15 feet and below, did not show detectable concentrations of BTEX, naphthalene, or petroleum as crude oil in the initial investigation and showed detections to 23 feet in the secondary boring investigation. Based on the results of these investigations, it appears the extent of the asphalt-like material in soil is limited. The current excavation extends to approximately 10-feet below grade. Surface samples taken at 10-feet and 13-feet displayed elevated levels of crude oil, however samples collected at a depth of 15-feet bgs, just 5 feet below these detections, did not contain any detectable petroleum in the initial investigation.

One sample collected within the excavation (B-1) at a depth of 20-feet bgs had a relatively low (62 mg/kg) detection of petroleum as crude oil in comparison to the other samples with detectable petroleum. The sample from 40-feet bgs in B-1 did not have any reportable detection of petroleum. It appears that the heavy oil is confined to the upper 10-25 feet of soil. Sample results indicate there is no BTEX nor naphthalene in the soils. In general accordance with Health & Safety Code Section 25296.15 (b) MTBE was not analyzed due to the fact that MTBE is a gasoline additive and would not be present in materials inconsistent with gasoline.

The results of these investigations were compared to the Region 2 San Francisco Water Board Environmental Screening Levels (ESLs). While crude oil is not listed in the ESL guidance, total petroleum hydrocarbons as motor oil (TPHmo) values were referenced, even though motor oil is expected to be in a shorter hydrocarbon range. The ESLs for TPHmo in residential and commercial settings ranged from 500 to 1,000 mg/kg for odor and vapor pressure and from 1,000 to 10,000 mg/kg for human health risk.

This site also falls within the general requirements of the Low Threat Closure Policy, with the exception that the source of the petroleum was from an above ground tank and not an underground storage tank.

- a. The unauthorized release is located within the service area of a public water system;
- b. The unauthorized release consists only of petroleum;
- c. The unauthorized ("primary") release from the UST system has been stopped;
- d. Free product has been removed to the maximum extent practicable;
- e. A conceptual site model that assesses the nature, extent, and mobility of the release has been developed;
- f. Secondary source has been removed to the extent practicable;
- g. Soil or groundwater has been tested for methyl tert-butyl ether (MTBE) and results reported in accordance with Health and Safety Code section 25296.15 (not required); and
- h. Nuisance as defined by Water Code section 13050 does not exist at the site.



7.0 RECOMMENDATIONS

The origin of the asphalt-like material appears to be the removed concrete bunker. The petroleum material is characterized by long-chain hydrocarbons characteristic of paraffin waxes, petroleum coke or weathered asphalt. The material is likely weathered and highly oxidized, thereby further reducing its mobility in the environment. Constituents that typically display higher human health risk (BTEX and naphthalene) were not detected in the material. The majority of the impacted soils have been removed to 10-feet bgs and intrinsic in-situ bioremediation will continue in the subsurface.

Based on the depth to water (approximately 100 feet bgs) it is unlikely that the presence of weathered heavy-chained hydrocarbons in the upper soils present a risk to groundwater. Average concentrations of petroleum as crude oil across the site are less than the 10,000 mg/kg TPH_{mo} which is the ESL for human health risk in a commercial setting.

The product removed from the concrete structure was designated for re-use in hot-mix asphalt (HMA), as it is a heavy or long-carbon-chain petroleum product. Typical asphalt oil is applied to aggregate at 5% for road construction. The highest petroleum concentration collected from the soil surface after excavation was performed was 3,500 mg/kg or 0.35%. The remaining material in the subsurface is insignificant. Redevelopment of the property is proposed which will likely include asphalt roads, asphalt paved parking lots, etc. Asphalt pavement is considered to have an insignificant and incidental impact on the surroundings. No further action is proposed at this time.

8.0 LIMITATIONS

This report has been prepared for the Ohanesian Estate using the standard level of care ordinarily exercised by other consultants practicing in the same discipline and locale at the time the services were performed. WECs conclusions are based on a limited number of samples and may not represent the condition of the site as a whole. No warranties, either express or implied, are provided.



Table 1
Results of Chemical Analysis of Soils
Ohanesian Property, Fresno, CA

Sample ID	Sample Date	Benzene (mg/kg)	Ethylbenzene (mg/kg)	Napthalene (mg/kg)	Toluene (mg/kg)	Total Xylenes (mg/kg)	p- & m-Xylenes (mg/kg)	o- Xylenes (mg/kg)	Crude Oil (mg/kg)
Initial Sample									
Soil -1	4/20/2015	< 0.0050	< 0.0050	NA	< 0.0050	< 0.010	< 0.0050	< 0.0050	33000
Boring Samples									
B1 @ 15'	6/26/2015	NA	NA	< 0.0050	NA	NA	NA	NA	< 20
B1 @ 20'	6/26/2015	NA	NA	< 0.0050	NA	NA	NA	NA	62
B1 @ 40'	6/26/2015	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 20
B2 @ 15'	6/26/2015	NA	NA	< 0.0050	NA	NA	NA	NA	NA
B3 @ 15'	6/26/2015	NA	NA	< 0.0050	NA	NA	NA	NA	NA
B4 @ 15'	6/26/2015	NA	NA	< 0.0050	NA	NA	NA	NA	< 20
B4 @ 25'	6/26/2015	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 20
B5 @ 12.5'	9/14/2015	NA	NA	NA	NA	NA	NA	NA	410
B5 @ 15'	9/14/2015	NA	NA	< 0.0050	NA	NA	NA	NA	460
B5 @ 17.5'	9/14/2015	NA	NA	NA	NA	NA	NA	NA	170
B6 @ 12.5'	9/14/2015	NA	NA	NA	NA	NA	NA	NA	340
B6 @ 15'	9/14/2015	NA	NA	NA	NA	NA	NA	NA	180
B7 @ 15'	9/14/2015	NA	NA	NA	NA	NA	NA	NA	< 20
B8 @ 15'	9/14/2015	NA	NA	NA	NA	NA	NA	NA	< 20
B9 @ 12.5'	9/14/2015	NA	NA	NA	NA	NA	NA	NA	< 20
B9 @ 15'	9/14/2015	NA	NA	NA	NA	NA	NA	NA	< 20
B10 @ 15'	9/14/2015	NA	NA	NA	NA	NA	NA	NA	< 20
B11 @ 12.5'	9/14/2015	NA	NA	NA	NA	NA	NA	NA	3900
B11 @ 15'	9/14/2015	NA	NA	NA	NA	NA	NA	NA	1100
B12 @ 13'	9/14/2015	NA	NA	NA	NA	NA	NA	NA	1100
B13 @ 13'	9/14/2015	NA	NA	NA	NA	NA	NA	NA	370
B13 @ 15.5'	9/14/2015	NA	NA	NA	NA	NA	NA	NA	570
B14 @ 12.5'	9/14/2015	NA	NA	NA	NA	NA	NA	NA	3500
B14 @ 15'	9/14/2015	NA	NA	NA	NA	NA	NA	NA	410
B14 @ 17.5'	9/14/2015	NA	NA	NA	NA	NA	NA	NA	1000
B15 @ 15'	9/14/2015	NA	NA	NA	NA	NA	NA	NA	550
B16 @ 15'	9/14/2015	NA	NA	NA	NA	NA	NA	NA	< 20

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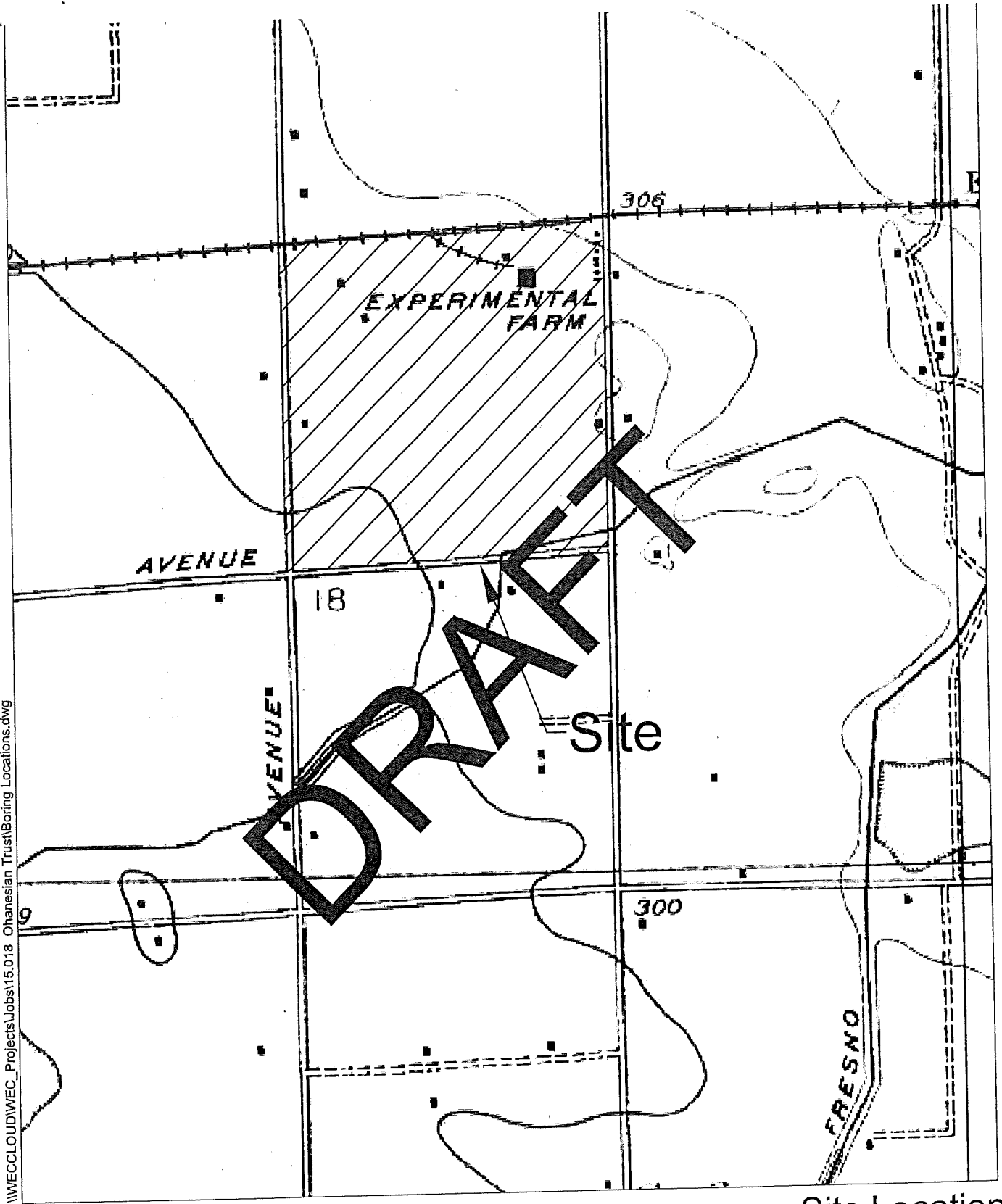
Table 1
Results of Chemical Analysis of Soils
Ohanesian Property, Fresno, CA

Sample ID	Sample Date	Benzene (mg/kg)	Ethylbenzene (mg/kg)	Napthalene (mg/kg)	Toluene (mg/kg)	Total Xylenes (mg/kg)	p- & m- Xylenes (mg/kg)	o- Xylenes (mg/kg)	Crude Oil (mg/kg)
Surface Samples									
S1	6/26/2015	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	15000
S2 @ 5'	7/16/2015	NA	NA	NA	NA	NA	NA	NA	140
S3 @ 5'	7/16/2015	NA	NA	NA	NA	NA	NA	NA	< 20
S4 @ 5'	7/16/2015	NA	NA	NA	NA	NA	NA	NA	1900
S5 @ 5'	7/16/2015	NA	NA	NA	NA	NA	NA	NA	840
S6 @ 5'	7/16/2015	NA	NA	NA	NA	NA	NA	NA	20
S7 @ 5'	7/16/2015	NA	NA	NA	NA	NA	NA	NA	< 20
S8 @ 13'	7/16/2015	NA	NA	NA	NA	NA	NA	NA	6900
S9 @ 10'	7/16/2015	NA	NA	NA	NA	NA	NA	NA	1200

Notes:
 Results in bold are above the detection limit
 < - Results less than detection limit for reporting
 > - Results greater than maximum limit for reporting
 NA - Sample not analyzed
 (mg/kg) - milligrams per kilogram

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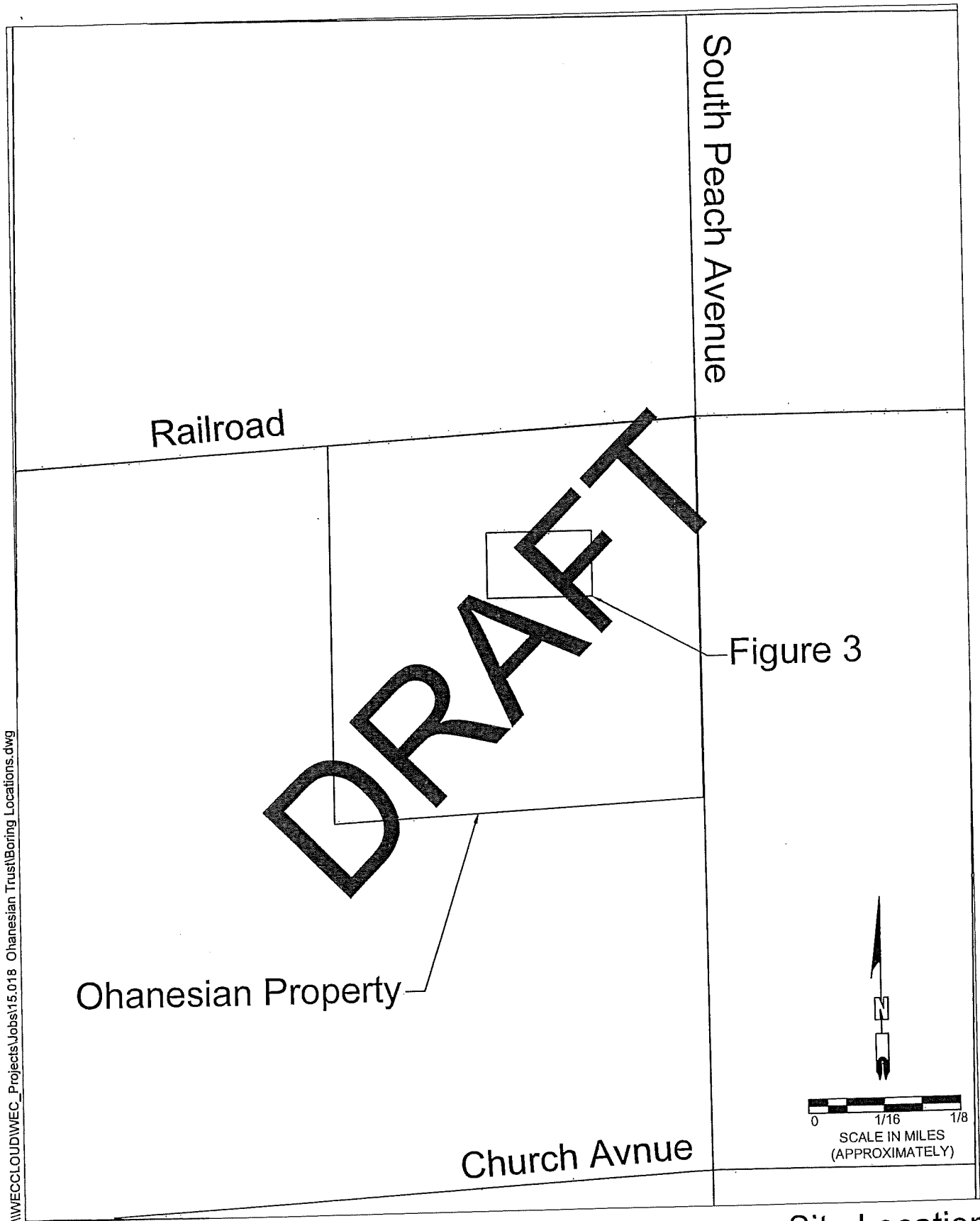


Site Location
Soil Investigation
Ohanesian Trust
Fresno, California

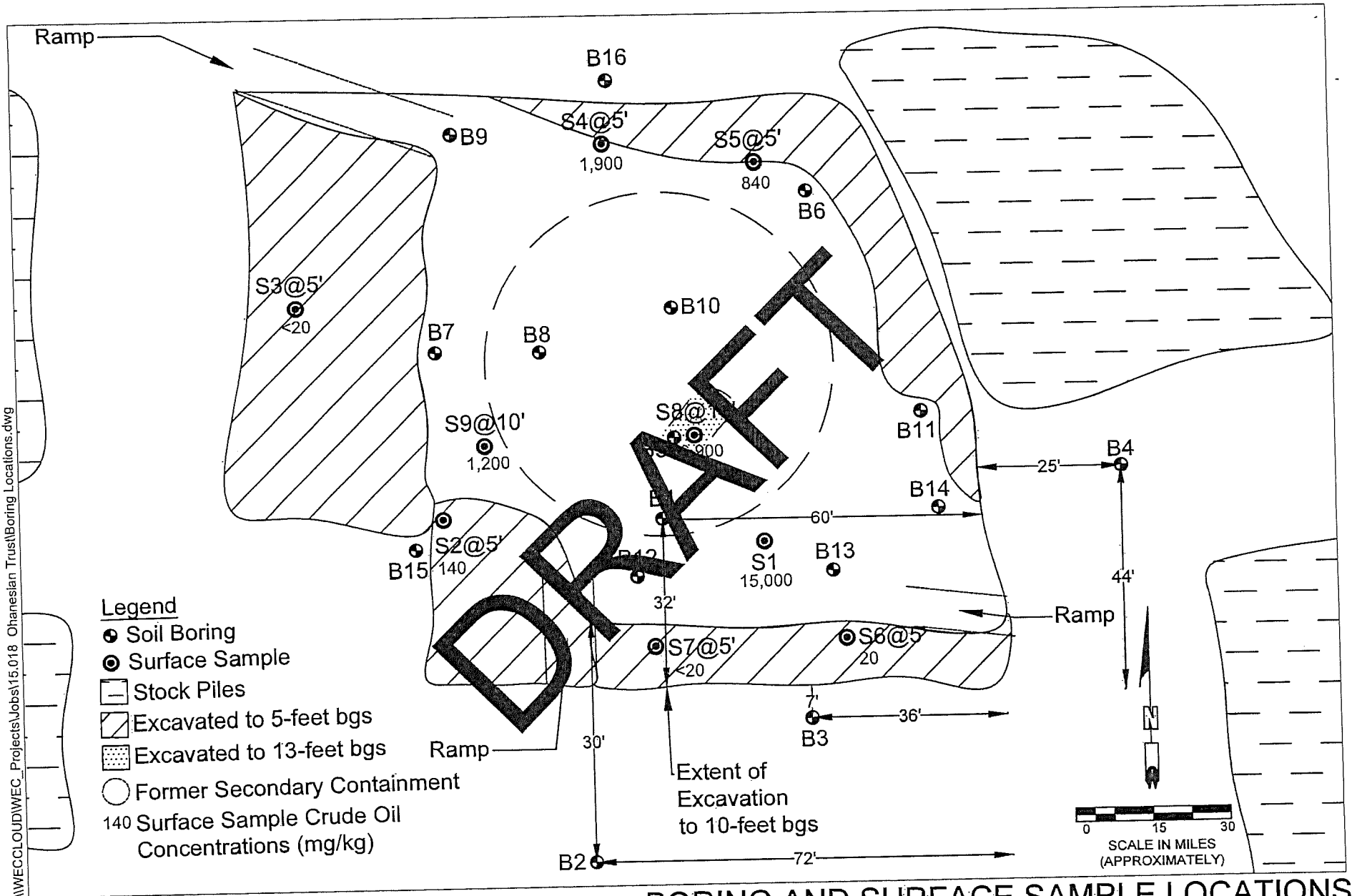


FIGURE 1

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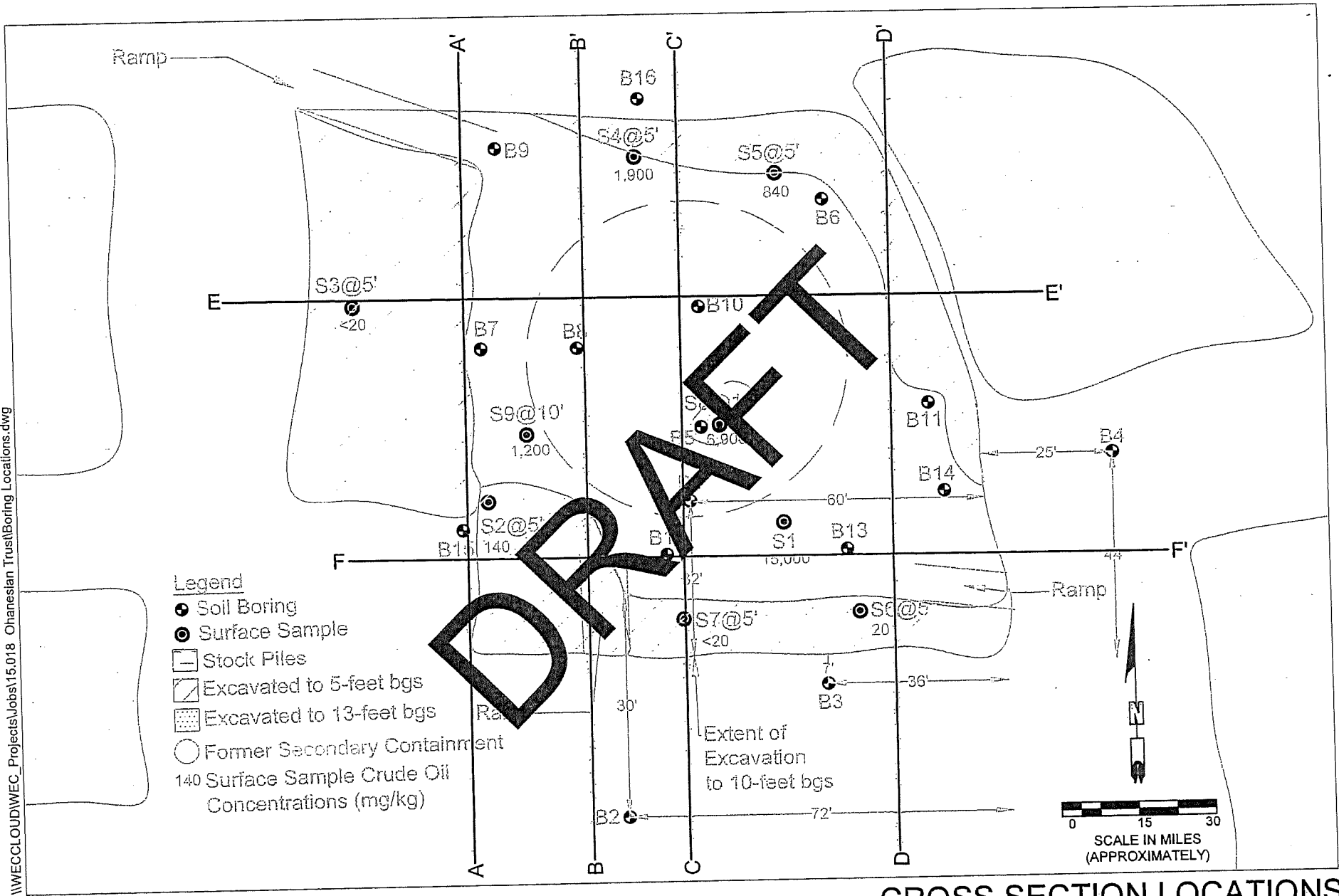


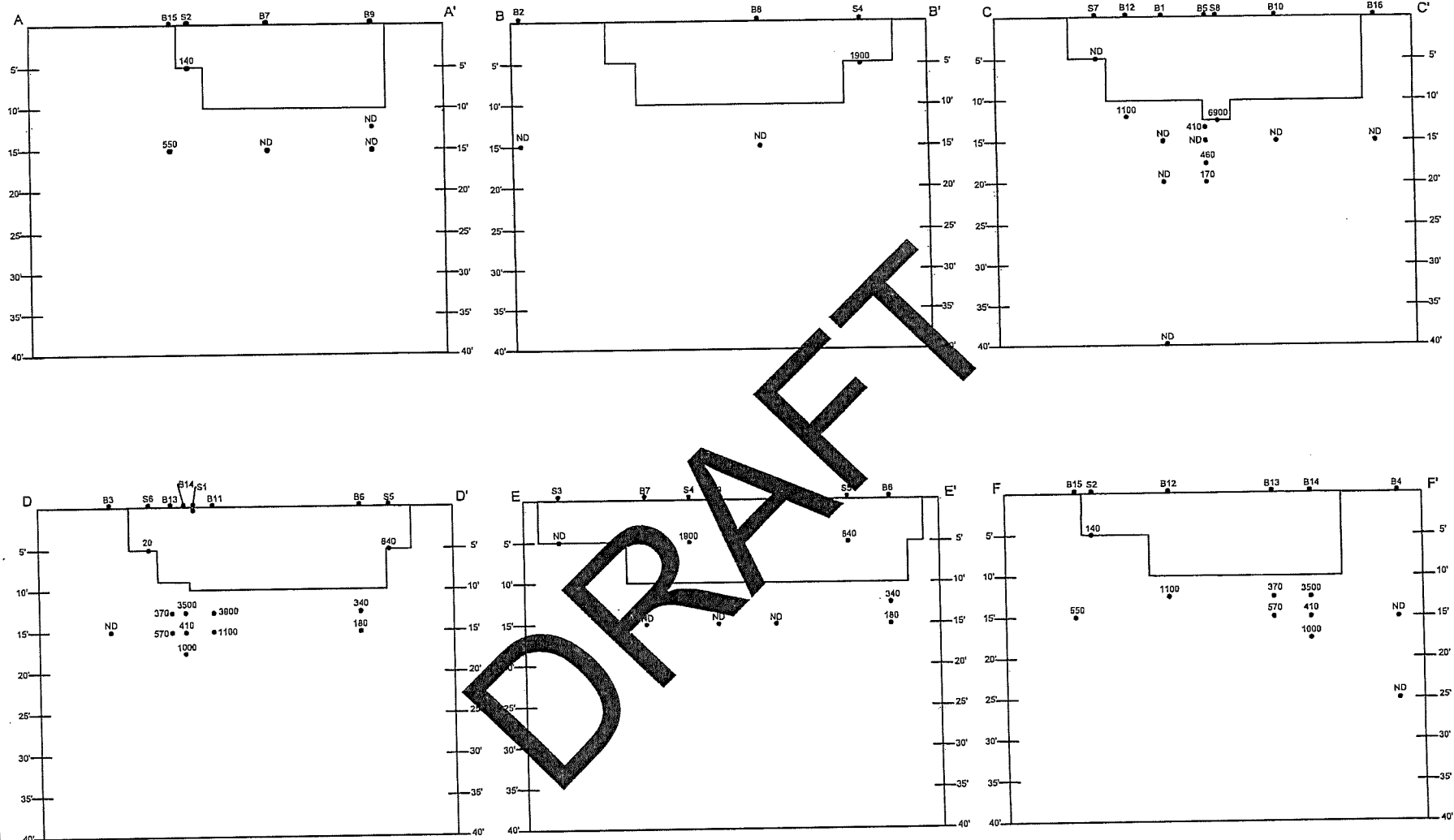
BORING AND SURFACE SAMPLE LOCATIONS

Preliminary Soil Investigation
Estate of John Ohanesian
Fresno, California

FIGURE 3

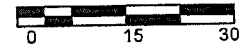






Legend
 s3 Soil Boring
 s6 Surface Sample
 140 Sample Crude Oil
 Concentrations (mg/kg)
 — Excavation

Vertical Exaggeration 3X



SCALE IN FEET (APPROXIMATELY)

CROSS SECTIONS

Preliminary Soil Investigation

Estate of John Ohanesian

Fresno, California

FIGURE 5



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 Clovis, CA 93611
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CLIENT Ohanesian Trust PROJECT NAME Ohanesian Soil Investigation
 PROJECT NUMBER 15.018 PROJECT LOCATION Fresno, California
 DATE STARTED 6/26/15 COMPLETED 6/26/15 GROUND ELEVATION _____ HOLE SIZE 6 inches
 DRILLING CONTRACTOR Technicon GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger 2" AT TIME OF DRILLING —
 LOGGED BY K.Ford CHECKED BY N. Willbanks AT END OF DRILLING —
 NOTES Started 10 feet below ground surface AFTER DRILLING —

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0					Borehole began at 10 feet below ground surface	
10.0			ML		(ML) SILT, dark brown to gray, coloration, no odor, hard	
15.0	MC	11-26-22/0"	ML		(ML) SILT, dark brown, evidence of oxidation, no odor, hard	FID = 1.5 TPH = 0
20.0	MC	12-14-17/0"	SP		(SP) POORLY GRADED SAND, medium to light brown, moist, very stiff	FID = 1 TPH = 62
25.0	MC	6-7-11/0"	CL		(CL) LOW PLASTICITY CLAY, dark brown, moist, hard	FID = 1.1
30.0	MC	13-23-40/0"	SM		(SM) SILTY SAND, dark brown to red, evidence of oxidation, no odor, moist, hard	FID = 1.5
35.0	MC	10-8-50/0"	SP		(SP) POORLY GRADED SAND, medium to coarse grain, medium brown to red, no odor, moist, dense	FID = 1.6
40.0	MC	0-17-50/0"	SM		(SM) SILTY SAND, fragments of clay, medium brown, no odor, moist, hard	FID = 1 TPH = 0
45.0	MC	24-36-34/0"	ML		(ML) SILT, medium brown to green, no odor, moist, hard	FID = 1.1
50.0	MC	10-20-30/0"	SM		(SM) SILTY SAND, medium brown to red, no odor, moist, hard	FID = 1.3
55.0	MC	0-11-50/0"	SM		(SM) SILTY SAND, medium brown to red, no odor, moist, hard	FID = 1.5
60.0	MC	0-27-50/0"			Bottom of borehole at 60.0 feet.	FID = 1.2

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BORING NUMBER B-2

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CLIENT Ohanesian Trust
 PROJECT NUMBER 15.018
 DATE STARTED 6/26/15 COMPLETED 6/26/15
 DRILLING CONTRACTOR Technicon
 DRILLING METHOD Hollow Stem Auger 2"
 LOGGED BY K.Ford CHECKED BY N. Willbanks
 NOTES _____

PROJECT NAME Ohanesian Soil Investigation
 PROJECT LOCATION Fresno, California
 GROUND ELEVATION _____ HOLE SIZE 6 inches
 GROUND WATER LEVELS:
 AT TIME OF DRILLING —
 AT END OF DRILLING —
 AFTER DRILLING —

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0					(SM) SILTY SAND, medium to coarse grain sand, medium brown, no odor, moist, dense	
5.0	MC 7-15-20/0"		SM		(SP) POORLY GRADED SAND, medium to coarse grain sand, medium brown, no odor, moist, loose	FID = 1 /
10.0	MC 7-8-8/0"		SP		(ML) SILT, fine grain, gray, no odor, moist, very stiff	FID = 0 /
15.0	MC 15-16-20/0"		ML		(SM) SILTY SAND, fine grain sand, light brown, no odor, moist, stiff	FID = 1.5 /
20.0	MC 10-11-17/0"		SM		Bottom of borehole at 20.0 feet.	FID = 0.7 /

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PAGE 1 OF 1

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 PROJECT NUMBER 15.018 PROJECT LOCATION Fresno, California
 DATE STARTED 6/26/15 COMPLETED 6/26/15 GROUND ELEVATION _____ HOLE SIZE 6 inches
 DRILLING CONTRACTOR Technicon GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger 2" AT TIME OF DRILLING --
 LOGGED BY K.Ford CHECKED BY N. Willbanks AT END OF DRILLING --
 AFTER DRILLING --

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0					(SM) SILTY SAND, light to medium brown, no odor, hard	
	MC	0-13-50/0"	SM		5.0	FID = 1
			ML		(ML) SILT, light brown to gray, no odor, hard	
10	MC	15-45-50/0"	SM		10.0 (SM) SILTY SAND, light brown to gray, no odor, stiff	FID = 1.7
	MC	10-11-15/0"	SM		15.0 (SM) SILTY SAND, light brown, moist, no odor, very stiff	FID = 1.4
20	MC	11-13-17/0"			20.0 Bottom of borehole at 20.0 feet.	FID = 0

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PAGE 1 OF 1

CLIENT Ohanesian Trust PROJECT NAME Ohanesian Soil Investigation
 PROJECT NUMBER 15.018 PROJECT LOCATION Fresno, California
 DATE STARTED 6/26/15 COMPLETED 6/26/15 GROUND ELEVATION _____ HOLE SIZE 6 inches
 DRILLING CONTRACTOR Technicon GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger 2" AT TIME OF DRILLING ---
 LOGGED BY K.Ford CHECKED BY N. Willbanks AT END OF DRILLING ---
 AFTER DRILLING ---

NOTES _____

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0					(SM) SILTY SAND, medium brown, no odor, moist, very stiff	
			SM			
	MC 0-17-50/0"				5.0 (ML) SILT, light brown, no odor, moist, very stiff	FID = 2.5 /
			ML			
10	MC 22-29-30/0"				10.0 (ML) SILT, medium brown, some discoloration at 14', odor present, moist, medium stiff	FID = 2.2 /
			ML			
	MC 9-8-15/0"				15.0 (SP) POORLY GRADED SAND, fine grain, minor discoloration at 18', light brown, no odor, stiff	FID = 3.2 TPH = 0
			SP			
20	MC 10-13-17/0"				20.0 (SP) POORLY GRADED SAND, fine grain, light brown, no odor, medium stiff	
			SP			
	MC 7-10-13/0"				25.0 Bottom of borehole at 25.0 feet.	TPH = 0

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CLIENT Ohanesian Trust
 PROJECT NUMBER 15.018
 DATE STARTED 9/14/15 COMPLETED 9/14/15
 DRILLING CONTRACTOR Technicon
 DRILLING METHOD Hollow Stem Auger 2"
 LOGGED BY K.Ford CHECKED BY N. Willbanks
 NOTES Started 10 feet below ground surface

PROJECT NAME Ohanesian Soil Investigation
 PROJECT LOCATION Fresno, California
 GROUND ELEVATION _____ HOLE SIZE 6 inches
 GROUND WATER LEVELS:
 AT TIME OF DRILLING ---
 AT END OF DRILLING ---
 AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0					Borehole began at 13 feet below ground surface	
10						
					13.0	
			SM		(SM) SILTY SAND, medium brown, fine grain, poorly cemented, minor odor, discoloration, moist, very dense	
	MC 14-42-50/0"		ML		(ML) SILT, medium brown, fine grain, poorly cemented, no odor, discoloration, moist, medium dense	TPH = 410/
	MC 7-8-9/0"		ML		(ML) SILT, medium brown, fine grain, poorly cemented, no odor, no discoloration, moist, medium dense	TPH = 460/
20	MC 4-7-8/0"		SM		(SM) SILTY SAND, medium brown to red, medium to fine grain, poorly cemented, no odor, moist, dense	TPH = 170/
	MC 9-11-12/0"				23.0	
					Bottom of borehole at 23.0 feet.	

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CLIENT Ohanesian Trust PROJECT NAME Ohanesian Soil Investigation
 PROJECT NUMBER 15.018 PROJECT LOCATION Fresno, California
 DATE STARTED 9/14/15 COMPLETED 9/14/15 GROUND ELEVATION _____ HOLE SIZE 6 inches
 DRILLING CONTRACTOR Technicon GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger 2" AT TIME OF DRILLING —
 LOGGED BY K.Ford CHECKED BY N. Willbanks AT END OF DRILLING —
 NOTES Started 10 feet below ground surface AFTER DRILLING —

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
10.0			SM		(SM) SILTY SAND, light brown, fine grain, poorly cemented, moist, dense	
12.5	MC 5-12-21/0"		CL		(CL) SILTY CLAY, light brown, fine grain, poorly cemented, moist, medium dense	TPH = 340/
15.0	MC 6-8-9/0"				Bottom of rehole at 15.0 feet.	TPH = 180/

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CLIENT Ohanesian Trust PROJECT NAME Ohanesian Soil Investigation
 PROJECT NUMBER 15.018 PROJECT LOCATION Fresno, California
 DATE STARTED 9/14/15 COMPLETED 9/14/15 GROUND ELEVATION _____ HOLE SIZE 6 inches
 DRILLING CONTRACTOR Technicon GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger 2" AT TIME OF DRILLING ---
 LOGGED BY K.Ford CHECKED BY N. Willbanks AT END OF DRILLING ---
 NOTES Started 10 feet below ground surface AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
10.0			CL		(CL) SILTY CLAY, brown, poorly cemented, fine grained, moist, dense, no odor	
12.5	MC	10-33-50/0"	CL		(CL) SILTY CLAY, light brown, fine grained, moist, medium dense, no odor	
15.0	MC	8-10-12/0"			Bottom of rehole at 15.0 feet.	TPH = 0

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CLIENT Ohanesian Trust PROJECT NAME Ohanesian Soil Investigation
 PROJECT NUMBER 15.018 PROJECT LOCATION Fresno, California
 DATE STARTED 9/14/15 COMPLETED 9/14/15 GROUND ELEVATION _____ HOLE SIZE 6 inches
 DRILLING CONTRACTOR Technicon GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger 2" AT TIME OF DRILLING —
 LOGGED BY K.Ford CHECKED BY N. Willbanks AT END OF DRILLING —
 NOTES Started 10 feet below ground surface AFTER DRILLING —

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
10						
	MC 5-15-30/0"		CL		10.0 (CL) SILTY CLAY, yellow brown, poorly cemented, fine grain, discoloration, no odor, moist, dense	
	MC 9-10-9/0"		CL		12.5 (CL) LOW PLASTICITY CLAY, light brown, poorly cemented, very fine grain, discoloration, no odor, moist, medium dense	
					15.0 Bottom of hole at 15.0 feet.	TPH = 0

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CLIENT Ohanesian Trust PROJECT NAME Ohanesian Soil Investigation
 PROJECT NUMBER 15.018 PROJECT LOCATION Fresno, California
 DATE STARTED 9/14/15 COMPLETED 9/14/15 GROUND ELEVATION _____ HOLE SIZE 6 inches
 DRILLING CONTRACTOR Technicon GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger 2" AT TIME OF DRILLING —
 LOGGED BY K.Ford CHECKED BY N. Willbanks AT END OF DRILLING —
 NOTES Started 10 feet below ground surface AFTER DRILLING —

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
10						
	MC	5-10-16/0"	CL		10.0 (CL) SILTY CLAY, light brown, dry cemented, fine grain, discoloration, no odor, moist, medium dense	TPH = 0
	MC	18-15-14/0"	CL		12.5 (CL) SILTY CLAY, yellow brown, poorly cemented, fine grain, no discoloration, no odor, moist, medium dense	TPH = 0
					15.0 Bottom of hole at 15.0 feet.	

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BORING NUMBER B-10

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 PROJECT NUMBER 15.018 PROJECT LOCATION Fresno, California
 DATE STARTED 9/14/15 COMPLETED 9/14/15 GROUND ELEVATION _____ HOLE SIZE 6 inches
 DRILLING CONTRACTOR Technicon GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger 2" AT TIME OF DRILLING —
 LOGGED BY K.Ford CHECKED BY N. Willbanks AT END OF DRILLING —
 NOTES Started 10 feet below ground surface AFTER DRILLING —

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
10						
	MC	12-13-27/0"	CL		10.0 (CL) SILTY CLAY, light to yellow brown, poorly cemented, fine grain, slight discoloration, no odor, moist, dense	
	MC	10-7-7/0"	CL		12.5 (CL) LOW PLASTICITY CLAY, yellow brown, fine grain, no discoloration, no odor, moist, medium dense	
					15.0 Bottom of hole at 15.0 feet.	TPH = 0

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CLIENT Ohanesian Trust PROJECT NAME Ohanesian Soil Investigation
 PROJECT NUMBER 15.018 PROJECT LOCATION Fresno, California
 DATE STARTED 9/14/15 COMPLETED 9/14/15 GROUND ELEVATION _____ HOLE SIZE 6 inches
 DRILLING CONTRACTOR Technicon GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger 2" AT TIME OF DRILLING ---
 LOGGED BY K.Ford CHECKED BY N. Willbanks AT END OF DRILLING ---
 NOTES Started 10 feet below ground surface AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
10						
			ML		10.0 (ML) SANDY SILT, light brown, fine grain, poorly cemented, slight discoloration, no odor, moist, medium dense	
	MC 7-10-14/0"		CL		12.5 (CL) SILTY CLAY, light brown, fine grain, poorly cemented, no discoloration, slight odor, moist, medium dense	TPH = 3900
	MC 7-10-14/0"				15.0 Bottom of hole at 15.0 feet.	TPH = 1100

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BORING NUMBER B-12

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CLIENT Ohanesian Trust
 PROJECT NUMBER 15.018
 DATE STARTED 9/14/15 COMPLETED 9/14/15
 DRILLING CONTRACTOR Technicon
 DRILLING METHOD Hollow Stem Auger 2"
 LOGGED BY K.Ford CHECKED BY N. Willbanks
 NOTES Started 8 feet below ground surface

PROJECT NAME Ohanesian Soil Investigation
 PROJECT LOCATION Fresno, California
 GROUND ELEVATION _____ HOLE SIZE 6 inches
 GROUND WATER LEVELS:
 AT TIME OF DRILLING ---
 AT END OF DRILLING ---
 AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
8.0			CL		(CL) SILTY CLAY, light brown, fine grain, poorly cemented, slight discoloration, no odor, moist, medium dense	
10.5	MC	3-3-10/0"	ML		(ML) SANDY SILT, yellow brown, fine grain, poorly cemented, no discoloration, no odor, moist, very dense	
13.0	MC	18-37-38/0"			Bottom of borehole at 13.0 feet.	TPH = 1100

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BORING NUMBER B-13

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CLIENT Ohanesian Trust PROJECT NAME Ohanesian Soil Investigation
 PROJECT NUMBER 15.018 PROJECT LOCATION Fresno, California
 DATE STARTED 9/14/15 COMPLETED 9/14/15 GROUND ELEVATION _____ HOLE SIZE 6 inches
 DRILLING CONTRACTOR Technicon GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger 2" AT TIME OF DRILLING —
 LOGGED BY K.Ford CHECKED BY N. Willbanks AT END OF DRILLING —
 NOTES Started 8 feet below ground surface AFTER DRILLING —

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
8.0			ML		(ML) SANDY SILT, light brown, fine grain, poorly cemented, discoloration, no odor, moist, medium dense	
10.5			CL		(CL) SILTY CLAY, light brown, fine grain, poorly cemented, no discoloration, no odor, moist, very dense	
13.0	MC	4-8-10/0"	CL		(CL) LOW PLASTICITY CLAY, light brown, fine grain, poorly cemented, no discoloration, no odor, moist, medium dense	TPH = 370/
15.5	MC	13-40-55/0"	CL		(CL) LOW PLASTICITY CLAY, light brown, fine grain, poorly cemented, no discoloration, no odor, moist, medium dense	TPH = 570/
	MC	7-7-8/0"			Bottom of bore hole at 15.5 feet.	

DRAFT

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 11/20/15 09:54 - \\WEC\CL\WEC_PROJECTS\JOBS\15.018_OHANESIAN TRUST\GINT_OHANESIAN.GPJ



Willbanks Environmental Consulting
 755 N Peach Ave Ste G-9
 Clovis, CA 93611
 Telephone: 559-797-4181

BORING NUMBER B-14

PAGE 1 OF 1

CLIENT Ohanesian Trust
 PROJECT NUMBER 15.018
 DATE STARTED 9/14/15 COMPLETED 9/14/15
 DRILLING CONTRACTOR Technicon
 DRILLING METHOD Hollow Stem Auger 2"
 LOGGED BY K.Ford CHECKED BY N. Willbanks
 NOTES Started 10 feet below ground surface

PROJECT NAME Ohanesian Soil Investigation
 PROJECT LOCATION Fresno, California
 GROUND ELEVATION _____ HOLE SIZE 6 inches
 GROUND WATER LEVELS:
 AT TIME OF DRILLING —
 AT END OF DRILLING —
 AFTER DRILLING —

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
10.0			CL		(CL) SILTY CLAY, light brown, fine grain, poorly cemented, no discoloration, slight odor, moist, dense	TPH = 3500
12.5	MC 3-9-27/0"		CL		(CL) LOW PLASTICITY CLAY, light yellow brown, fine grain, poorly cemented, no discoloration, slight odor, moist, medium dense	TPH = 410
15.0	MC 7-9-13/0"		CL		(CL) SILTY CLAY, yellowish brown, fine grain, poorly cemented, no discoloration, slight odor, moist, medium dense	TPH = 1000
17.5	MC 8-9-11/0"				Bottom of borehole at 17.5 feet.	

DRAFT

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 11/20/15 09:54 - \\WEC\CL\WEC_PROJECTS\JOBS\15.018 - OHANESIAN TRUST\GINT OHANESIAN.GPJ



Willbanks Environmental Consulting
 755 N Peach Ave Ste G-9
 Clovis, CA 93611
 Telephone: 559-797-4181

BORING NUMBER B-15

PAGE 1 OF 1

CLIENT Ohanesian Trust PROJECT NAME Ohanesian Soil Investigation
 PROJECT NUMBER 15.018 PROJECT LOCATION Fresno, California
 DATE STARTED 9/14/15 COMPLETED 9/14/15 GROUND ELEVATION _____ HOLE SIZE 6 inches
 DRILLING CONTRACTOR Technicon GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger 2" AT TIME OF DRILLING ---
 LOGGED BY K.Ford CHECKED BY N. Willbanks AT END OF DRILLING ---
 NOTES _____ AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
	MC	11-16-15/0"	SP		(SP) POORLY GRADED SAND, red yellow to brown fine grain, poorly cemented, no discoloration, no odor, moist, medium dense	
5.0						
	MC	9-18-20/0"	SM		(SM) SILTY SAND, fine grain, light brown to yellow brown, poorly cemented, no discoloration, no odor, moist, dense	
10.0						
	MC	7-8-7/0"	CL		(CL) SILTY CLAY, light brown fine grain, poorly cemented, no discoloration, no odor, moist, medium dense	
15.0						
					Bottom of borehole at 15.0 feet.	TPH = 550

DRAFT

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 11/20/15 09:54 - \\WEC\cloud\WEC_PROJECTS\JOBS\15.018_OHANESIAN TRUST\GINT_OHANESIAN.GPJ



Willbanks Environmental Consulting
 755 N Peach Ave Ste G-9
 Clovis, CA 93611
 Telephone: 559-797-4181

BORING NUMBER B-16

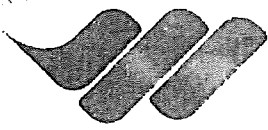
PAGE 1 OF 1

CLIENT Ohanesian Trust PROJECT NAME Ohanesian Soil Investigation
 PROJECT NUMBER 15.018 PROJECT LOCATION Fresno, California
 DATE STARTED 9/14/15 COMPLETED 9/14/15 GROUND ELEVATION _____ HOLE SIZE 6 inches
 DRILLING CONTRACTOR Technicon GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger 2" AT TIME OF DRILLING ---
 LOGGED BY K.Ford CHECKED BY N. Willbanks AT END OF DRILLING ---
 NOTES _____ AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
	MC	10-16-30/0"	SM		(SM) SILTY SAND, yellow to red brown, fine grain, poorly cemented, no odor, no discoloration, moist, dense	
5.0						
	MC	9-6-5/0"	SM		(SM) SILTY SAND, light brown, fine grain, poorly cemented, discoloration, no odor, dry, medium dense	
10.0						
	MC	5-6-8/0"	SC		(SC) CLAYEY SAND, light brown, fine to coarse grain, no odor, no discoloration, moist, medium dense	
15.0						
	MC	5-6-8/0"			Bottom of borehole at 15.0 feet.	TPH = 0

DRAFT

GENERAL BH / TP / WELL - CINT STD US LAB.GDT - 11/20/15 09:54 - \\WEC\cloud\wec_projects\jobs\15.018 OHANESIAN TRUST\GINT OHANESIAN.GPJ



November 11, 2019

WEC Project 19.086

Steve Ohanesian
John Ohanesian Estate
2122 South Peach Avenue
Fresno, California 93725

**Re: Review of Environmental Documents
Ohanesian Property
2122 South Peach & 2121 South Willow Avenues
Fresno, California**

Dear Mr. Ohanesian:

Willbanks Environmental Consulting, Inc. (WEC) has reviewed environmental documents prepared for the Ohanesian Property, comprised of two contiguous addresses: 2122 South Peach & 2121 South Willow Avenues in Fresno, California (Site). WEC reviewed files for environmental soil removals conducted at each address one in 2015 and one in 2018. The first event resulted from the discovery of a tarry substance during the demolition of an above ground concrete structure, and the second involved drilling fluids that were deposited by a contractor on the property without permission. From the documents reviewed, WEC summarizes the events that occurred as follows:

2122 South Peach Avenue

During 2015, a voluntary soil removal was performed during the demolition of a structure on the property. The soil, which was found to contain a "tar-like" substance, was characterized, removed from the property, and a report documenting the soil removal and analyses of remaining site soils was submitted to the California Regional Water Quality Control Board (RWQCB). The RWQCB issued a letter stating, "no further assessment or remediation is required for this site," which is equivalent to a "No Further Action" notice had the RWQCB chosen to open a clean-up case, however they did not.

2121 South Willow Avenue

In 2018, Pacific Gas & Electric (PG&E) hired contractors to perform horizontal borings on or near the property. One of the contractors dumped drilling spoils on the property without permission. PG&E hired a testing lab to test the soils and characterize them for disposal. The soil was removed and clean fill was brought back on to the property in place of the removed soils. Prior to removal, the drilling spoils were analyzed for California Assessment Metals (CAM17), and Total Petroleum Hydrocarbons as referenced to diesel, gasoline, and motor oil (TPHd, TPHg, and TPHmo, respectively). Based on our review of the laboratory analytical results, the drilling spoils were within the Tier 2 Environmental Screening Levels (ESLs) for a residential scenario, with the exception of one sample that exceeded the level for TPHd (Section L). TPHd degrades over time when exposed to the atmosphere. Since these soils were removed and clean fill brought in, there is no reason to expect that the underlying soils would have been impacted to the extent the remaining soils were above ESLs.

In the event of a property sale transaction, all documentation referencing the aforementioned events should be provided to the buyer as part of the due diligence process. It is our opinion, and in the case of the 2015 incident, the position of the RWQCB, that neither of these incidents warrant further action from an

environmental perspective. However, a buyer should perform its own customary due diligence at the time of, and prior to purchase.

This review has been prepared for the John Ohanesian Estate using the standard level of care ordinarily exercised by other consultants practicing in the same discipline and locale at the time the services were performed. WECs conclusions are based on a limited number of samples and may not represent the condition of the site as a whole. No warranties, either express or implied, are provided.

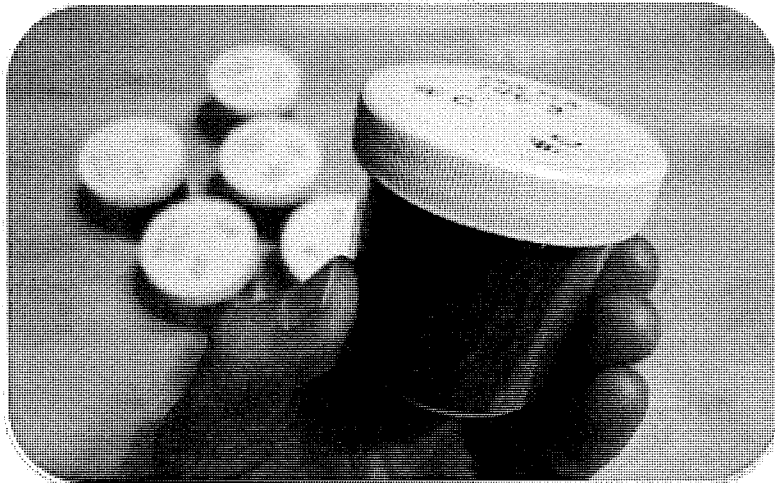
Please contact the WEC office at (559) 797-4181, if you have any questions or comments.

Regards,
Willbanks Environmental Consulting, Inc.

Noelle Willbanks

Noelle A. Willbanks, P.E.





Soil Sampling Report

Site location: PM#31320988 Fresno

Submitted to: Pacific Gas & Electric

Rich Ricks Field Coordinator
3170 Crow Canyon Place, Suite 250
T: 925.244.1803 C: 916.747.2986 E: rich.ricks@hydrochempsc.com

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Report Summary

The following report summarizes the PM#31320988 Fresno grab soil samples collected on 12/04/2018. All analytical data will be forwarded, when received, from the laboratory with the report number noted on the final page of this soil sampling report.

Introduction

As requested representative surface grab samples were collected at the designated area as defined by the PG&E Environmental Ops Representative. Composite soil samples were collected in accordance with the PG&E GD/ED Soil Sampling SOP. Analytical data obtained was reviewed to determine if any additional analytical methods were necessary for the sample collected i.e. STLC, TCLP WET methods, additionally the results were used to characterize the soil for disposal at a PG&E approved landfill or transfer to a third party.

The samples were transported to a designated PG&E approved laboratory and were analyzed for:

- TPH-G /BTEX (8260)
- TPH-D (8015B)
- TPH-MO (8015B)
- CAM₁₇ Metals (6010B, 7471A)

Scope of Work

HydrochemPSC PM scope of work included the following:

1. Reviewed soil sampling guidelines provided by the GD/ED EFS
2. Prepared Site Specific H&S Plan for the project work
3. Assigned the sampling technician to perform the work
4. Arranged meeting time and place with construction contractor
5. Reviewed analytical results and directed additional methods as necessary
6. Compiled and submitted comprehensive sampling activity report

HydrochemPSC Sampling Technician scope of work included the following:

1. Reviewed soil sampling guidelines provided by the GD/ED EFS
2. Reviewed H&S plan and completed appropriate H&S paperwork
3. Collected the appropriate number of grab samples
4. Collected photos of the grab soil samples
5. Completed sample labels and COC
6. Completed site sketch
7. Delivered samples to laboratory

Daily Narrative

The HydrochemPSC sampling technician arrived onsite at 0930 on 12/04/2018 and met with the site foreman, reviewed site safety checklist, health safety plans and JLA's.

The sampling technician measured the area and then began to collect grab soil samples. A total of 12 samples were taken (5 point composite each sample).

A Site Location Map was taken for the sampling location. A Field Sketch was created to show measurements and locations in relation to each another. Field Notes were also completed.

All samples collected were packed on ice and transported to the lab.

All analytical data will be forwarded, when received, from the laboratory with the report numbers noted on the final page of this sampling activity report.

Quality Assurance

Grab soil sampling was conducted in accordance with:

- HydrochemPSC SAP
- HydrochemPSC Soil Sampling SOP
- EPA publication SW-846 Section (section 9.1.1.4.1 Composite Sampling, Table 9-1 Eq #8)

Field Information

Site Location Map



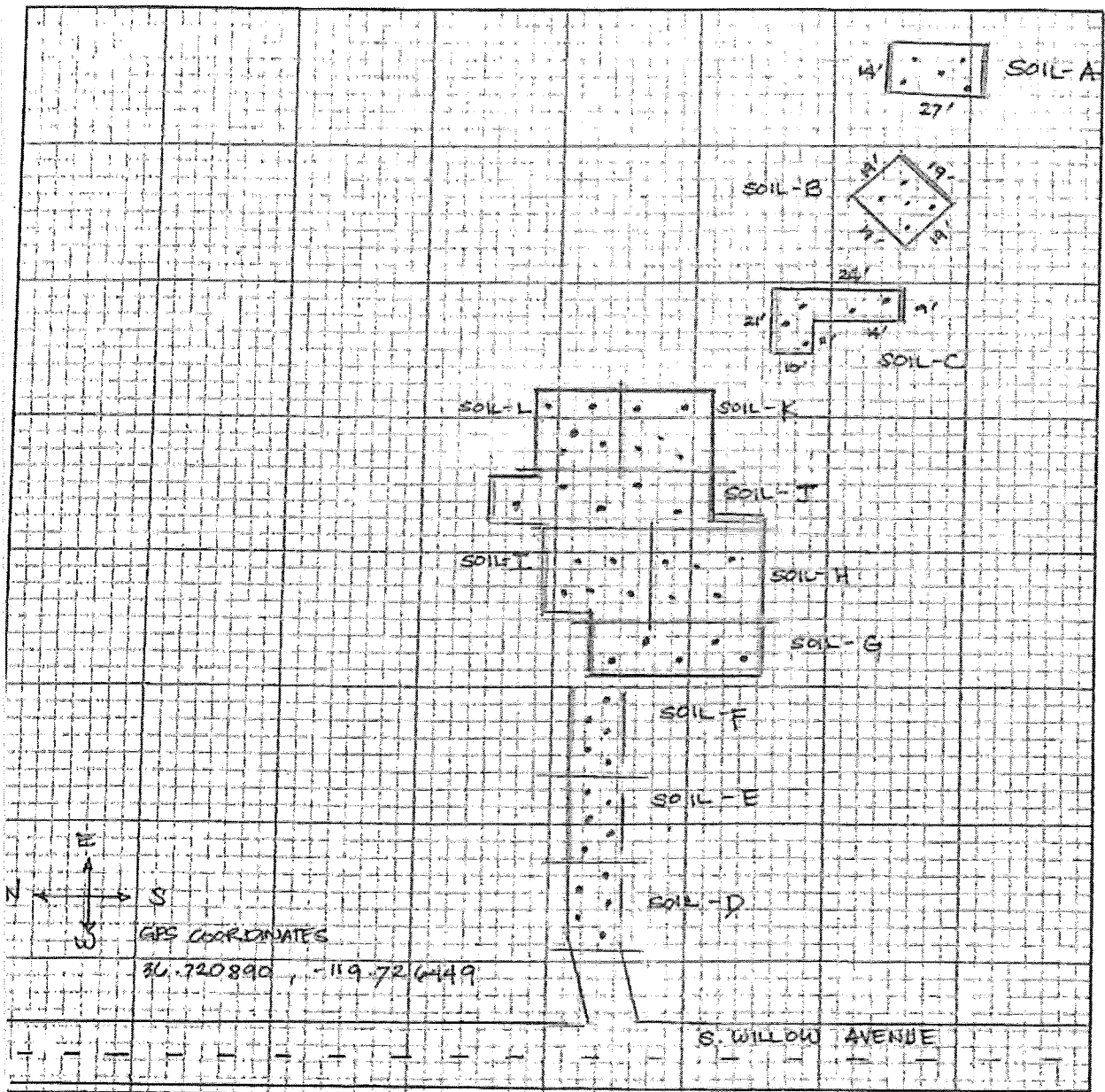
FIELD SKETCH

Project#31320988 Fresno

Client/Project: PG&E Grab Soil Sample

Date: 12-04-18

PSC Technician: ALEX MANALILI



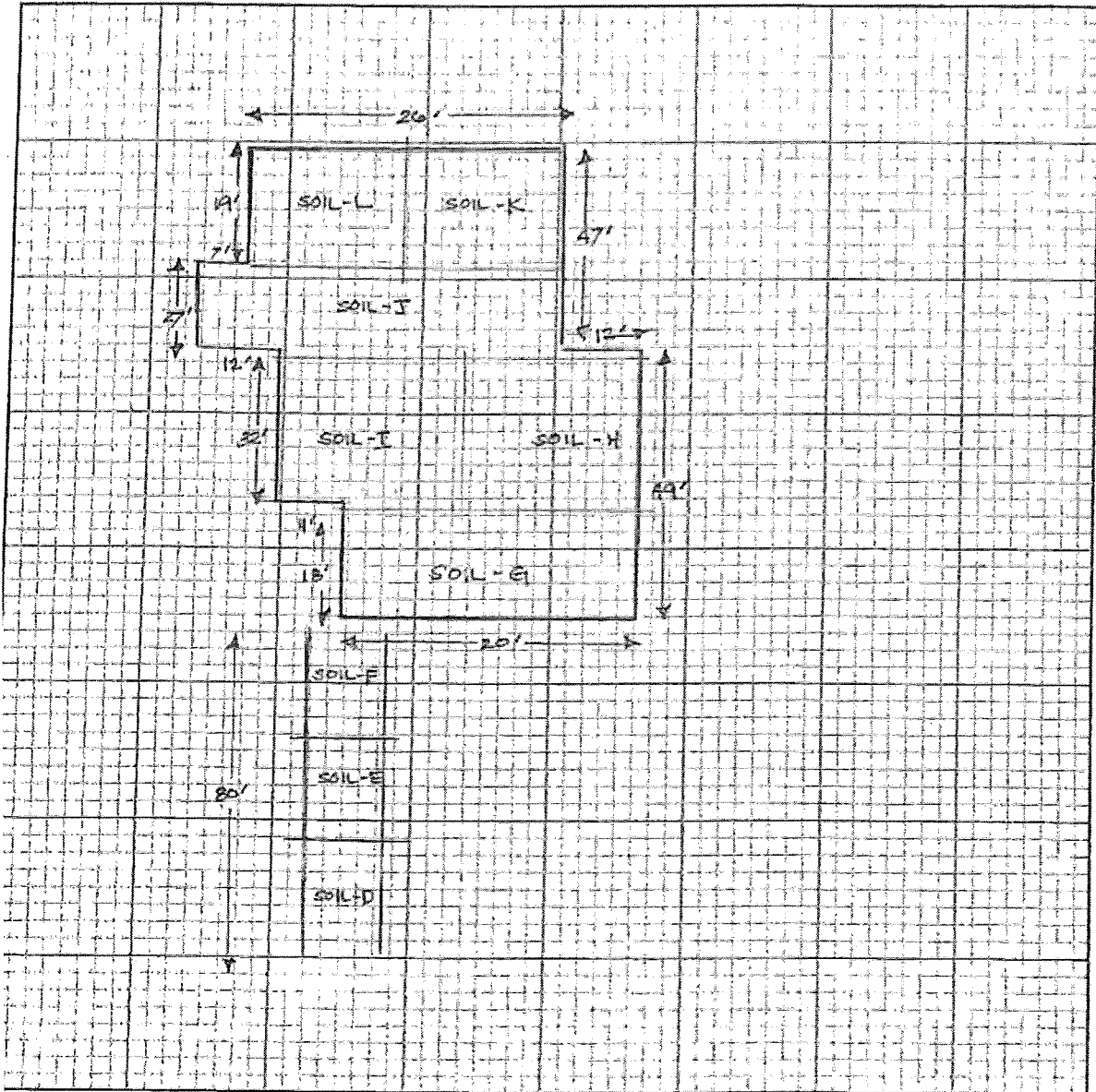
FIELD SKETCH

Project#31320988 Fresno

Client/Project: PG&E Grab Soil Sample

Date: 12-04-18

PSC Technician: ALEX MANALILI



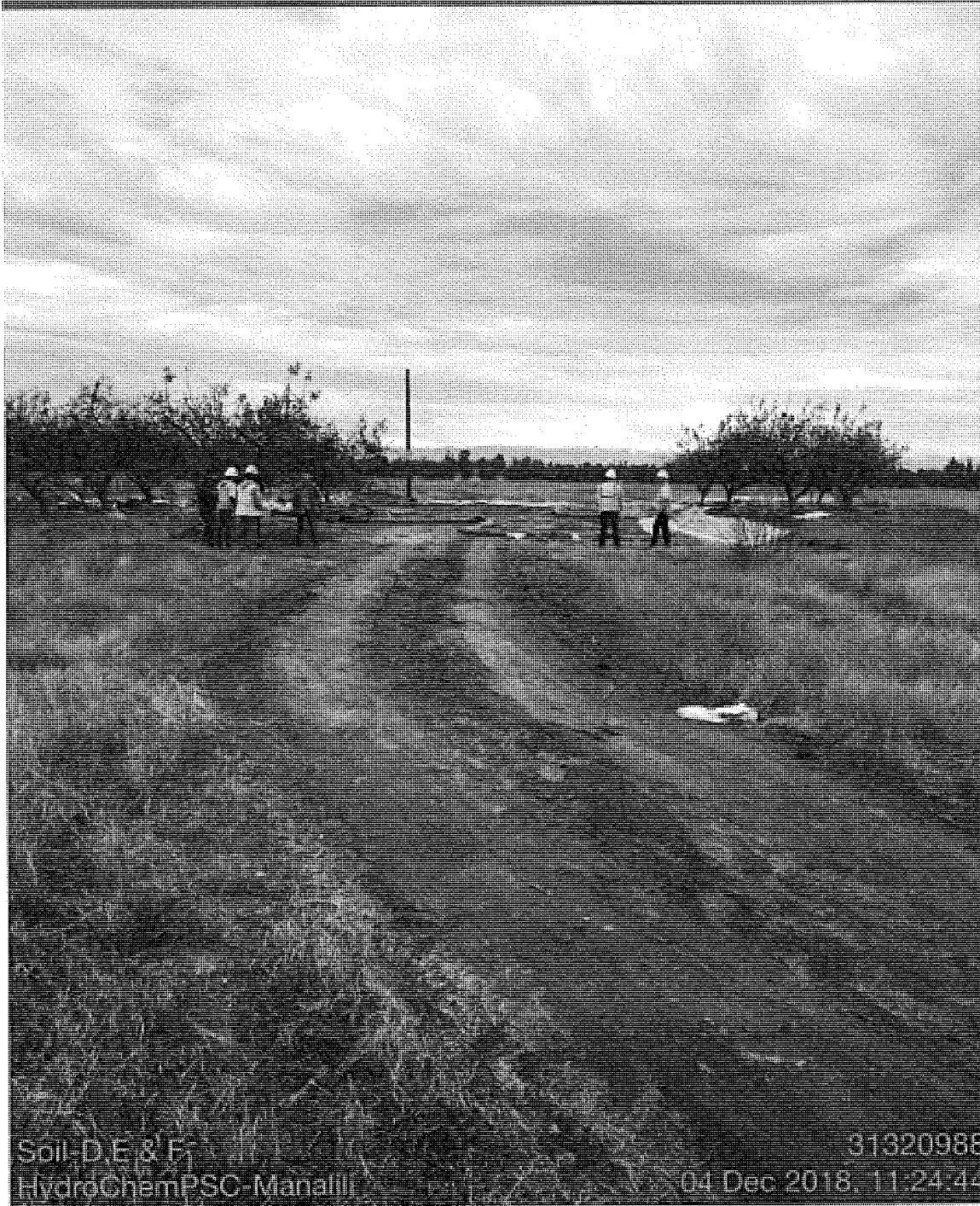
Site Photos







2121 S Willow Ave, Fresno, CA 93725



Soil - D, E & F
HydroChemPSC-Manajillo

31320988
04 Dec 2018, 11:24:44



2121 S Willow Ave, Fresno, CA 93725





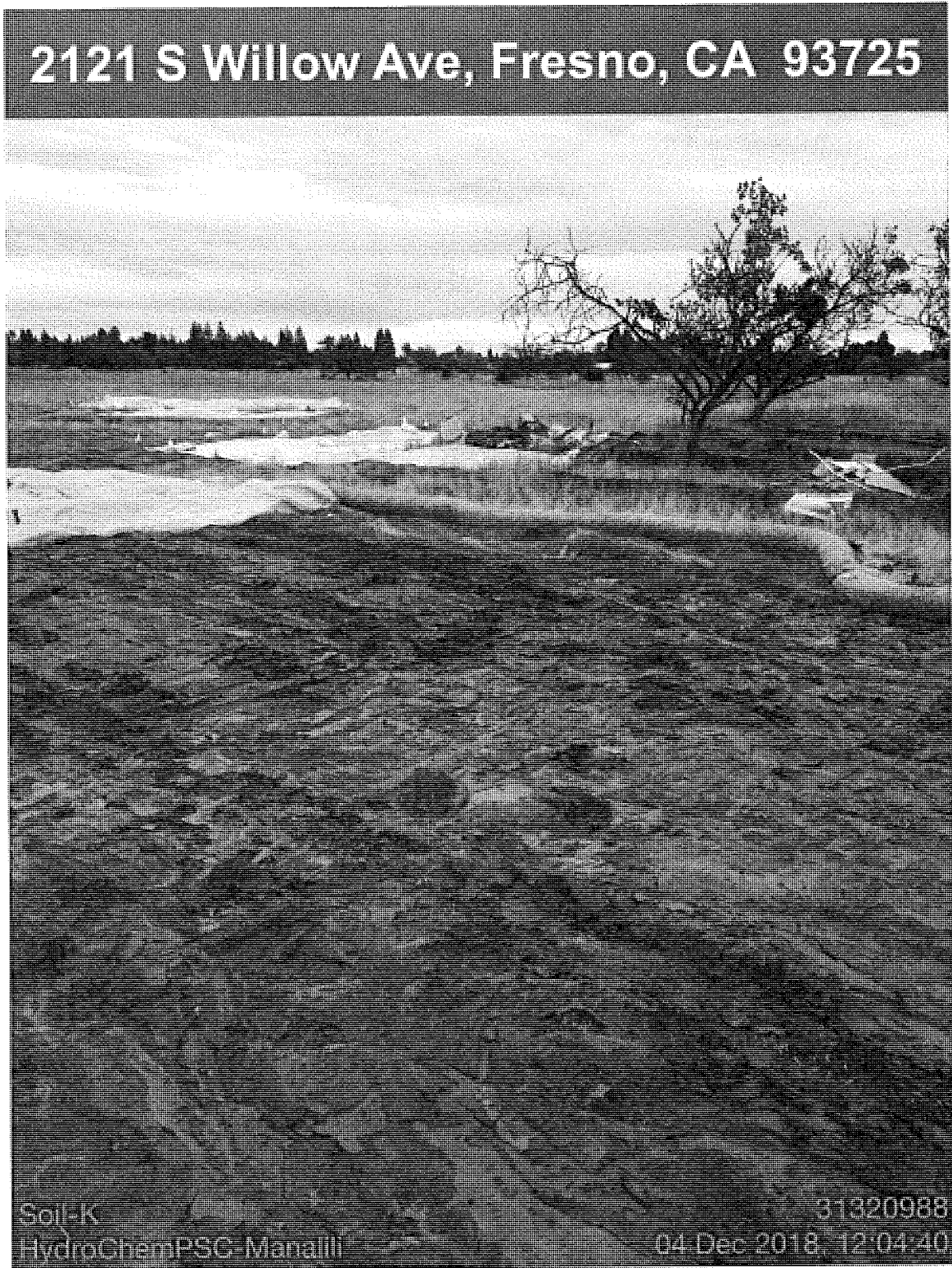
2121 S Willow Ave, Fresno, CA 93725





2121 S Willow Ave, Fresno, CA 93725





2121 S Willow Ave, Fresno, CA 93725



Soil - L
HydroChemPSC-Manalili

31320988
04 Dec 2018, 12:04:19

Field Log

Sampling Program Field Notes

Job ID/PM#: 31320988 Fresno, CA. Client Name: PG&E / Grab Soil Sample
 Date: 12/04/18 PSC Technician: Alex Manalili

TIME	Field Notes
0930	Onsite signed and reviewed site safety checklist, Health & Safety Plan & JLA'S.
	Discuss Scope of Work and Health & Safety concern.
	Meet PG&E EFS onsite to assist and guide where samples need to be taken.
0945	Start measuring the area.
1000	Start collecting scrape soil sample. (see attached sketch site map for detail locations)
	Collected 12 samples total (5 point composite each sample)
	Take photos
1655	Deliver samples to Lab
1900	Process paperwork.

Results

Chain of Custody

720-90092
157107

Note to Sampler: Within one day of sample collection, email a photo or photocopy of CoC to ppsc@hydrochem.com.

Client Name		Client Location		Client Phone		Client Email	
Zanitha Ricks		Chesnut Ave. & Florence Ave., Fresno, CA.		925-597-7321		rich.ricks@pscnow.com	
Sampler Name		Sampler Company		Sampler Email		Sampler Order No.	
Alex Manalili		PSC		rich.ricks@pscnow.com		31320988	
Sampler Phone		Sampler Address		Sampler City		Sampler State	
916-747-2986		Zanitha Ricks		Fresno		CA	
Laboratory Name				Laboratory Address			
Test America				925-597-7321			
Sample Type				Sample Depth			
Soil				0-15cm			
Sample ID				Sample Date			
31320988-A-SOIL-20181204				12/04/18			
31320988-B-SOIL-20181204				12/04/18			
31320988-C-SOIL-20181204				12/04/18			
31320988-D-SOIL-20181204				12/04/18			
31320988-E-SOIL-20181204				12/04/18			
31320988-F-SOIL-20181204				12/04/18			
31320988-G-SOIL-20181204				12/04/18			
31320988-H-SOIL-20181204				12/04/18			
Instructions to Laboratory (check all that apply)							
<input checked="" type="checkbox"/> 1. Exact CoC & sample receipt form to be provided to laboratory. <input checked="" type="checkbox"/> 2. Perform analyses and report per the PSCAE non-DT CAMP. <input checked="" type="checkbox"/> 3. Upload ECD file to ECD file. <input checked="" type="checkbox"/> 4. Email report to alex.manalili@hydrochem.com. <input checked="" type="checkbox"/> 5. Email report to Client.							
Chain of Custody							
Prepared By		Received By		Date		Signature	
Alex Manalili		Joan Walker		12-4-18		[Signature]	
Analysis Requested (check all that apply)							
<input checked="" type="checkbox"/> TPH total oil (8015B) <input checked="" type="checkbox"/> TPH distill (8015B) <input checked="" type="checkbox"/> TPH gas/BTEX (8015M/8021B or 8260) <input checked="" type="checkbox"/> CAM 17 metals (8010B, 7471A) <input checked="" type="checkbox"/> PCBs (8082) <input checked="" type="checkbox"/> VOCs (8260B) <input checked="" type="checkbox"/> SVOCs (8270) <input checked="" type="checkbox"/> TPH mineral oil (8015B) <input checked="" type="checkbox"/> Pesticides (8081)							
Additional Comments							
SCSI PO# 332250 PSC Job# 178-1603-0017-J0403							

720-90092

187107

Note to Sampler: Within one day of sample collection, email a photo or photocopy of CoC to rjgsppolscos@ch2m.com

Client Name Zantha Ricks		Client Email Ricks, Zantha ZXSS8@pge.com		Laboratory Name Test America		Laboratory Work Order 925-597-7321		Analysis Requested (check all that apply)	
Site Name 31320988		Site Location Chesnut Ave. & Florence Ave. Fresno, CA		Company PSC		Sampler Email rich.ricks@pscnow.com		<input type="checkbox"/> TPH total oil (8015B)	
Sampler Name Alex Manalili		EFS Name Zantha Ricks		Order No. 31320988		<input type="checkbox"/> TPH diesel (8015B)		<input type="checkbox"/> TPH gas/STEA (8015M/8021B or 8250)	
Sampler Phone 916-747-2986		EFS Phone (if known)		Order No. 31320988		<input type="checkbox"/> CAM 17 metals (8010B, 7471A)		<input type="checkbox"/> PCBs (8042)	
Total/round Time (check one)		1 week <input type="radio"/> 2 week <input checked="" type="radio"/> 3 week <input type="radio"/> 4 week <input type="radio"/> 5 week <input type="radio"/>		Estimated Amount of Spots (C)		<input type="checkbox"/> VOCs (8260B)		<input type="checkbox"/> SVOCs (8370)	
Sample Matrix		Soil <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Other <input type="checkbox"/>		Sample Containers		<input type="checkbox"/> TPH mineral oil (8015B)		<input type="checkbox"/> Pesticides (8081)	
Sample ID		Date		Volume		No. of Containers		Laboratory Notes	
1. 31320988-L-SOIL-20181204		12/04/18		Jar		0.16 oz		2	
2. 31320988-J-SOIL-20181204		12/04/18		Jar		0.16 oz		2	
3. 31320988-K-SOIL-20181204		12/04/18		Jar		0.16 oz		2	
4. 31320988-L-SOIL-20181204		12/04/18		Jar		0.16 oz		2	
5.									
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Laboratory Analytical

Lab results are located in the following laboratory report:

TestAmerica Job ID: 720-90092-1 (Authorized for release: 12/7/2018 - 7:25:56 PM)

Client Project/Site: PM#31320988 Fresno

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90092-1
Client Project/Site: 31320988 Fresno

For:
HydroChemPSC
Attn: Accounts Payable
2050 W. Fremont St.
Stockton, California 95203

Attn: Rich Ricks



Authorized for release by:
12/7/2018 7:25:56 PM

Jenna Hunsinger, Project Management Assistant I
(916)373-5600
hunsingerj@testamericainc.com

LINKS

Review your project
results through
Total Access

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Job ID: 720-90092-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90092-1

Comments

No additional comments.

Receipt

The samples were received on 12/4/2018 4:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9° C.

GC/MS VOA

Method(s) 8260B: Internal standard (ISTD) response for the following samples were outside control limits: 31320988-A-SOIL-20181204 (720-90092-1) and (720-90092-A-1-B MS). The samples are the parent and MS with concurring results and the original set of data has been reported for QC purposes.

GC Semi VOA

Method(s) 8015B: The following samples required a dilution due to the nature of the sample matrix: 31320988-D-SOIL-20181204 (720-90092-4), 31320988-E-SOIL-20181204 (720-90092-5), 31320988-G-SOIL-20181204 (720-90092-7) and 31320988-L-SOIL-20181204 (720-90092-12). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.



Detection Summary

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Client Sample ID: 31320988-A-SOIL-20181204

Lab Sample ID: 720-90092-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	50		2.0		mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	100		49		mg/Kg	1		8015B	Total/NA
Barium	53		1.9		mg/Kg	4		6010B	Total/NA
Chromium	20		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	5.2		0.74		mg/Kg	4		6010B	Total/NA
Copper	9.5		5.6		mg/Kg	4		6010B	Total/NA
Lead	13		1.9		mg/Kg	4		6010B	Total/NA
Nickel	23		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	21		1.9		mg/Kg	4		6010B	Total/NA
Zinc	39		5.6		mg/Kg	4		6010B	Total/NA
Mercury	0.023		0.017		mg/Kg	1		7471A	Total/NA

Client Sample ID: 31320988-B-SOIL-20181204

Lab Sample ID: 720-90092-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	89		1.9		mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	290		48		mg/Kg	1		8015B	Total/NA
Barium	76		1.7		mg/Kg	4		6010B	Total/NA
Chromium	26		1.7		mg/Kg	4		6010B	Total/NA
Cobalt	6.2		0.67		mg/Kg	4		6010B	Total/NA
Copper	18		5.0		mg/Kg	4		6010B	Total/NA
Lead	11		1.7		mg/Kg	4		6010B	Total/NA
Nickel	30		1.7		mg/Kg	4		6010B	Total/NA
Vanadium	21		1.7		mg/Kg	4		6010B	Total/NA
Zinc	81		5.0		mg/Kg	4		6010B	Total/NA
Mercury	0.075		0.016		mg/Kg	1		7471A	Total/NA

Client Sample ID: 31320988-C-SOIL-20181204

Lab Sample ID: 720-90092-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	100		1.9		mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	300		48		mg/Kg	1		8015B	Total/NA
Barium	57		1.9		mg/Kg	4		6010B	Total/NA
Chromium	21		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	4.8		0.75		mg/Kg	4		6010B	Total/NA
Copper	9.2		5.6		mg/Kg	4		6010B	Total/NA
Lead	18		1.9		mg/Kg	4		6010B	Total/NA
Nickel	26		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	19		1.9		mg/Kg	4		6010B	Total/NA
Zinc	70		5.6		mg/Kg	4		6010B	Total/NA

Client Sample ID: 31320988-D-SOIL-20181204

Lab Sample ID: 720-90092-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	79		9.8		mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	330		240		mg/Kg	5		8015B	Total/NA
Barium	76		1.7		mg/Kg	4		6010B	Total/NA
Chromium	38		1.7		mg/Kg	4		6010B	Total/NA
Cobalt	7.9		0.69		mg/Kg	4		6010B	Total/NA
Copper	12		5.2		mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Client Sample ID: 31320988-D-SOIL-20181204 (Continued)

Lab Sample ID: 720-90092-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	16		1.7		mg/Kg	4		6010B	Total/NA
Nickel	64		1.7		mg/Kg	4		6010B	Total/NA
Vanadium	23		1.7		mg/Kg	4		6010B	Total/NA
Zinc	41		5.2		mg/Kg	4		6010B	Total/NA

Client Sample ID: 31320988-E-SOIL-20181204

Lab Sample ID: 720-90092-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	88		9.6		mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	360		240		mg/Kg	5		8015B	Total/NA
Barium	54		1.7		mg/Kg	4		6010B	Total/NA
Chromium	33		1.7		mg/Kg	4		6010B	Total/NA
Cobalt	5.8		0.68		mg/Kg	4		6010B	Total/NA
Copper	11		5.1		mg/Kg	4		6010B	Total/NA
Lead	17		1.7		mg/Kg	4		6010B	Total/NA
Nickel	40		1.7		mg/Kg	4		6010B	Total/NA
Vanadium	22		1.7		mg/Kg	4		6010B	Total/NA
Zinc	30		5.1		mg/Kg	4		6010B	Total/NA

Client Sample ID: 31320988-F-SOIL-20181204

Lab Sample ID: 720-90092-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	150		4.0		mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	530		99		mg/Kg	2		8015B	Total/NA
Barium	56		1.8		mg/Kg	4		6010B	Total/NA
Chromium	39		1.8		mg/Kg	4		6010B	Total/NA
Cobalt	6.7		0.72		mg/Kg	4		6010B	Total/NA
Copper	11		5.4		mg/Kg	4		6010B	Total/NA
Lead	13		1.8		mg/Kg	4		6010B	Total/NA
Nickel	50		1.8		mg/Kg	4		6010B	Total/NA
Vanadium	24		1.8		mg/Kg	4		6010B	Total/NA
Zinc	31		5.4		mg/Kg	4		6010B	Total/NA

Client Sample ID: 31320988-G-SOIL-20181204

Lab Sample ID: 720-90092-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	110		9.9		mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	420		250		mg/Kg	5		8015B	Total/NA
Barium	65		1.7		mg/Kg	4		6010B	Total/NA
Chromium	42		1.7		mg/Kg	4		6010B	Total/NA
Cobalt	8.3		0.66		mg/Kg	4		6010B	Total/NA
Copper	15		5.0		mg/Kg	4		6010B	Total/NA
Lead	15		1.7		mg/Kg	4		6010B	Total/NA
Nickel	63		1.7		mg/Kg	4		6010B	Total/NA
Vanadium	25		1.7		mg/Kg	4		6010B	Total/NA
Zinc	35		5.0		mg/Kg	4		6010B	Total/NA

Client Sample ID: 31320988-H-SOIL-20181204

Lab Sample ID: 720-90092-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]					mg/Kg				Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton



Detection Summary

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Client Sample ID: 31320988-H-SOIL-20181204 (Continued)

Lab Sample ID: 720-90092-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	68		2.0		mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	120		49		mg/Kg	1		8015B	Total/NA
Barium	54		1.6		mg/Kg	4		6010B	Total/NA
Chromium	28		1.6		mg/Kg	4		6010B	Total/NA
Cobalt	5.9		0.65		mg/Kg	4		6010B	Total/NA
Copper	9.9		4.9		mg/Kg	4		6010B	Total/NA
Lead	8.7		1.6		mg/Kg	4		6010B	Total/NA
Nickel	40		1.6		mg/Kg	4		6010B	Total/NA
Vanadium	20		1.6		mg/Kg	4		6010B	Total/NA
Zinc	24		4.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: 31320988-I-SOIL-20181204

Lab Sample ID: 720-90092-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	43		2.0		mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	150		49		mg/Kg	1		8015B	Total/NA
Barium	52		1.5		mg/Kg	4		6010B	Total/NA
Chromium	29		1.5		mg/Kg	4		6010B	Total/NA
Cobalt	6.0		0.60		mg/Kg	4		6010B	Total/NA
Copper	10		4.5		mg/Kg	4		6010B	Total/NA
Lead	9.1		1.5		mg/Kg	4		6010B	Total/NA
Nickel	41		1.5		mg/Kg	4		6010B	Total/NA
Vanadium	23		1.5		mg/Kg	4		6010B	Total/NA
Zinc	27		4.5		mg/Kg	4		6010B	Total/NA
Mercury	0.015		0.015		mg/Kg	1		7471A	Total/NA

Client Sample ID: 31320988-J-SOIL-20181204

Lab Sample ID: 720-90092-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	95		1.9		mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	260		48		mg/Kg	1		8015B	Total/NA
Barium	52		1.3		mg/Kg	4		6010B	Total/NA
Chromium	29		1.3		mg/Kg	4		6010B	Total/NA
Cobalt	6.6		0.54		mg/Kg	4		6010B	Total/NA
Copper	10		4.0		mg/Kg	4		6010B	Total/NA
Lead	8.8		1.3		mg/Kg	4		6010B	Total/NA
Nickel	44		1.3		mg/Kg	4		6010B	Total/NA
Vanadium	25		1.3		mg/Kg	4		6010B	Total/NA
Zinc	22		4.0		mg/Kg	4		6010B	Total/NA

Client Sample ID: 31320988-K-SOIL-20181204

Lab Sample ID: 720-90092-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	170		2.0		mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	370		49		mg/Kg	1		8015B	Total/NA
Barium	63		1.5		mg/Kg	4		6010B	Total/NA
Chromium	32		1.5		mg/Kg	4		6010B	Total/NA
Cobalt	7.6		0.59		mg/Kg	4		6010B	Total/NA
Copper	12		4.4		mg/Kg	4		6010B	Total/NA
Lead	9.2		1.5		mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: HydroChemPSC
 Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Client Sample ID: 31320988-K-SOIL-20181204 (Continued)

Lab Sample ID: 720-90092-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	53		1.5		mg/Kg	4		6010B	Total/NA
Vanadium	24		1.5		mg/Kg	4		6010B	Total/NA
Zinc	28		4.4		mg/Kg	4		6010B	Total/NA

Client Sample ID: 31320988-L-SOIL-20181204

Lab Sample ID: 720-90092-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	270		19		mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1000		470		mg/Kg	10		8015B	Total/NA
Barium	63		2.0		mg/Kg	4		6010B	Total/NA
Chromium	33		2.0		mg/Kg	4		6010B	Total/NA
Cobalt	7.3		0.80		mg/Kg	4		6010B	Total/NA
Copper	12		6.0		mg/Kg	4		6010B	Total/NA
Lead	10		2.0		mg/Kg	4		6010B	Total/NA
Nickel	54		2.0		mg/Kg	4		6010B	Total/NA
Vanadium	23		2.0		mg/Kg	4		6010B	Total/NA
Zinc	30		6.0		mg/Kg	4		6010B	Total/NA
Mercury	0.026		0.016		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton



Client Sample Results

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Client Sample ID: 31320988-A-SOIL-20181204

Lab Sample ID: 720-90092-1

Date Collected: 12/04/18 10:00

Matrix: Solid

Date Received: 12/04/18 16:55

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.9		ug/Kg		12/04/18 19:06	12/05/18 05:53	1
Ethylbenzene	ND		4.9		ug/Kg		12/04/18 19:06	12/05/18 05:53	1
Toluene	ND		4.9		ug/Kg		12/04/18 19:06	12/05/18 05:53	1
Xylenes, Total	ND		4.9		ug/Kg		12/04/18 19:06	12/05/18 05:53	1
Gasoline Range Organics (GRO) -C4-C12	ND		250		ug/Kg		12/04/18 19:06	12/05/18 05:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		45 - 131	12/04/18 19:06	12/05/18 05:53	1
1,2-Dichloroethane-d4 (Surr)	111		60 - 140	12/04/18 19:06	12/05/18 05:53	1
Toluene-d8 (Surr)	101		58 - 140	12/04/18 19:06	12/05/18 05:53	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	50		2.0		mg/Kg		12/04/18 15:26	12/06/18 22:40	1
Motor Oil Range Organics [C24-C36]	100		49		mg/Kg		12/04/18 15:26	12/06/18 22:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	81		40 - 130	12/04/18 15:26	12/06/18 22:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		12/04/18 20:13	12/05/18 15:31	4
Arsenic	ND		3.7		mg/Kg		12/04/18 20:13	12/05/18 15:31	4
Barium	53		1.9		mg/Kg		12/04/18 20:13	12/05/18 15:31	4
Beryllium	ND		0.37		mg/Kg		12/04/18 20:13	12/05/18 15:31	4
Cadmium	ND		0.46		mg/Kg		12/04/18 20:13	12/05/18 15:31	4
Chromium	20		1.9		mg/Kg		12/04/18 20:13	12/05/18 15:31	4
Cobalt	5.2		0.74		mg/Kg		12/04/18 20:13	12/05/18 15:31	4
Copper	9.5		5.6		mg/Kg		12/04/18 20:13	12/05/18 15:31	4
Lead	13		1.9		mg/Kg		12/04/18 20:13	12/05/18 15:31	4
Molybdenum	ND		1.9		mg/Kg		12/04/18 20:13	12/05/18 15:31	4
Nickel	23		1.9		mg/Kg		12/04/18 20:13	12/05/18 15:31	4
Selenium	ND		3.7		mg/Kg		12/04/18 20:13	12/05/18 15:31	4
Silver	ND		0.93		mg/Kg		12/04/18 20:13	12/05/18 15:31	4
Thallium	ND		1.9		mg/Kg		12/04/18 20:13	12/05/18 15:31	4
Vanadium	21		1.9		mg/Kg		12/04/18 20:13	12/05/18 15:31	4
Zinc	39		5.6		mg/Kg		12/04/18 20:13	12/05/18 15:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.017		mg/Kg		12/05/18 10:55	12/05/18 12:41	1

TestAmerica Pleasanton

Client Sample Results

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Client Sample ID: 31320988-B-SOIL-20181204

Lab Sample ID: 720-90092-2

Date Collected: 12/04/18 10:10

Matrix: Solid

Date Received: 12/04/18 16:55

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.9		ug/Kg		12/04/18 19:06	12/05/18 01:22	1
Ethylbenzene	ND		4.9		ug/Kg		12/04/18 19:06	12/05/18 01:22	1
Toluene	ND		4.9		ug/Kg		12/04/18 19:06	12/05/18 01:22	1
Xylenes, Total	ND		4.9		ug/Kg		12/04/18 19:06	12/05/18 01:22	1
Gasoline Range Organics (GRO) -C4-C12	ND		240		ug/Kg		12/04/18 19:06	12/05/18 01:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		45 - 131	12/04/18 19:06	12/05/18 01:22	1
1,2-Dichloroethane-d4 (Surr)	105		60 - 140	12/04/18 19:06	12/05/18 01:22	1
Toluene-d8 (Surr)	104		58 - 140	12/04/18 19:06	12/05/18 01:22	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	89		1.9		mg/Kg		12/04/18 18:57	12/06/18 14:17	1
Motor Oil Range Organics [C24-C36]	290		48		mg/Kg		12/04/18 18:57	12/06/18 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	100		40 - 130	12/04/18 18:57	12/06/18 14:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.7		mg/Kg		12/04/18 20:13	12/05/18 15:36	4
Arsenic	ND		3.4		mg/Kg		12/04/18 20:13	12/05/18 15:36	4
Barium	76		1.7		mg/Kg		12/04/18 20:13	12/05/18 15:36	4
Beryllium	ND		0.34		mg/Kg		12/04/18 20:13	12/05/18 15:36	4
Cadmium	ND		0.42		mg/Kg		12/04/18 20:13	12/05/18 15:36	4
Chromium	26		1.7		mg/Kg		12/04/18 20:13	12/05/18 15:36	4
Cobalt	6.2		0.67		mg/Kg		12/04/18 20:13	12/05/18 15:36	4
Copper	18		5.0		mg/Kg		12/04/18 20:13	12/05/18 15:36	4
Lead	11		1.7		mg/Kg		12/04/18 20:13	12/05/18 15:36	4
Molybdenum	ND		1.7		mg/Kg		12/04/18 20:13	12/05/18 15:36	4
Nickel	30		1.7		mg/Kg		12/04/18 20:13	12/05/18 15:36	4
Selenium	ND		3.4		mg/Kg		12/04/18 20:13	12/05/18 15:36	4
Silver	ND		0.84		mg/Kg		12/04/18 20:13	12/05/18 15:36	4
Thallium	ND		1.7		mg/Kg		12/04/18 20:13	12/05/18 15:36	4
Vanadium	21		1.7		mg/Kg		12/04/18 20:13	12/05/18 15:36	4
Zinc	81		5.0		mg/Kg		12/04/18 20:13	12/05/18 15:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.075		0.016		mg/Kg		12/05/18 10:55	12/05/18 12:44	1

TestAmerica Pleasanton

Client Sample Results

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Client Sample ID: 31320988-C-SOIL-20181204

Lab Sample ID: 720-90092-3

Date Collected: 12/04/18 10:20

Matrix: Solid

Date Received: 12/04/18 16:55

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.5		ug/Kg		12/04/18 19:06	12/05/18 01:52	1
Ethylbenzene	ND		4.5		ug/Kg		12/04/18 19:06	12/05/18 01:52	1
Toluene	ND		4.5		ug/Kg		12/04/18 19:06	12/05/18 01:52	1
Xylenes, Total	ND		4.5		ug/Kg		12/04/18 19:06	12/05/18 01:52	1
Gasoline Range Organics (GRO) -C4-C12	ND		230		ug/Kg		12/04/18 19:06	12/05/18 01:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		45 - 131	12/04/18 19:06	12/05/18 01:52	1
1,2-Dichloroethane-d4 (Surr)	105		60 - 140	12/04/18 19:06	12/05/18 01:52	1
Toluene-d8 (Surr)	100		58 - 140	12/04/18 19:06	12/05/18 01:52	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	100		1.9		mg/Kg		12/04/18 18:57	12/06/18 14:41	1
Motor Oil Range Organics [C24-C36]	300		48		mg/Kg		12/04/18 18:57	12/06/18 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	122		40 - 130	12/04/18 18:57	12/06/18 14:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		12/04/18 20:13	12/05/18 15:51	4
Arsenic	ND		3.7		mg/Kg		12/04/18 20:13	12/05/18 15:51	4
Barium	57		1.9		mg/Kg		12/04/18 20:13	12/05/18 15:51	4
Beryllium	ND		0.37		mg/Kg		12/04/18 20:13	12/05/18 15:51	4
Cadmium	ND		0.47		mg/Kg		12/04/18 20:13	12/05/18 15:51	4
Chromium	21		1.9		mg/Kg		12/04/18 20:13	12/05/18 15:51	4
Cobalt	4.8		0.75		mg/Kg		12/04/18 20:13	12/05/18 15:51	4
Copper	9.2		5.6		mg/Kg		12/04/18 20:13	12/05/18 15:51	4
Lead	18		1.9		mg/Kg		12/04/18 20:13	12/05/18 15:51	4
Molybdenum	ND		1.9		mg/Kg		12/04/18 20:13	12/05/18 15:51	4
Nickel	26		1.9		mg/Kg		12/04/18 20:13	12/05/18 15:51	4
Selenium	ND		3.7		mg/Kg		12/04/18 20:13	12/05/18 15:51	4
Silver	ND		0.93		mg/Kg		12/04/18 20:13	12/05/18 15:51	4
Thallium	ND		1.9		mg/Kg		12/04/18 20:13	12/05/18 15:51	4
Vanadium	19		1.9		mg/Kg		12/04/18 20:13	12/05/18 15:51	4
Zinc	70		5.6		mg/Kg		12/04/18 20:13	12/05/18 15:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.015		mg/Kg		12/05/18 10:55	12/05/18 12:46	1

Client Sample Results

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Client Sample ID: 31320988-D-SOIL-20181204

Lab Sample ID: 720-90092-4

Date Collected: 12/04/18 10:30

Matrix: Solid

Date Received: 12/04/18 16:55

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.9		ug/Kg		12/04/18 19:06	12/05/18 02:22	1
Ethylbenzene	ND		4.9		ug/Kg		12/04/18 19:06	12/05/18 02:22	1
Toluene	ND		4.9		ug/Kg		12/04/18 19:06	12/05/18 02:22	1
Xylenes, Total	ND		4.9		ug/Kg		12/04/18 19:06	12/05/18 02:22	1
Gasoline Range Organics (GRO) -C4-C12	ND		250		ug/Kg		12/04/18 19:06	12/05/18 02:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	85		45 - 131	12/04/18 19:06	12/05/18 02:22	1
1,2-Dichloroethane-d4 (Surr)	112		60 - 140	12/04/18 19:06	12/05/18 02:22	1
Toluene-d8 (Surr)	101		58 - 140	12/04/18 19:06	12/05/18 02:22	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	79		9.8		mg/Kg		12/04/18 18:57	12/06/18 22:25	5
Motor Oil Range Organics [C24-C36]	330		240		mg/Kg		12/04/18 18:57	12/06/18 22:25	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	12/04/18 18:57	12/06/18 22:25	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.7		mg/Kg		12/04/18 20:13	12/05/18 15:56	4
Arsenic	ND		3.4		mg/Kg		12/04/18 20:13	12/05/18 15:56	4
Barium	76		1.7		mg/Kg		12/04/18 20:13	12/05/18 15:56	4
Beryllium	ND		0.34		mg/Kg		12/04/18 20:13	12/05/18 15:56	4
Cadmium	ND		0.43		mg/Kg		12/04/18 20:13	12/05/18 15:56	4
Chromium	38		1.7		mg/Kg		12/04/18 20:13	12/05/18 15:56	4
Cobalt	7.9		0.69		mg/Kg		12/04/18 20:13	12/05/18 15:56	4
Copper	12		5.2		mg/Kg		12/04/18 20:13	12/05/18 15:56	4
Lead	16		1.7		mg/Kg		12/04/18 20:13	12/05/18 15:56	4
Molybdenum	ND		1.7		mg/Kg		12/04/18 20:13	12/05/18 15:56	4
Nickel	64		1.7		mg/Kg		12/04/18 20:13	12/05/18 15:56	4
Selenium	ND		3.4		mg/Kg		12/04/18 20:13	12/05/18 15:56	4
Silver	ND		0.86		mg/Kg		12/04/18 20:13	12/05/18 15:56	4
Thallium	ND		1.7		mg/Kg		12/04/18 20:13	12/05/18 15:56	4
Vanadium	23		1.7		mg/Kg		12/04/18 20:13	12/05/18 15:56	4
Zinc	41		5.2		mg/Kg		12/04/18 20:13	12/05/18 15:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.016		mg/Kg		12/05/18 10:55	12/05/18 12:48	1

Client Sample Results

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Client Sample ID: 31320988-E-SOIL-20181204

Lab Sample ID: 720-90092-5

Date Collected: 12/04/18 10:40

Matrix: Solid

Date Received: 12/04/18 16:55

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg		12/04/18 19:06	12/05/18 02:52	1
Ethylbenzene	ND		5.0		ug/Kg		12/04/18 19:06	12/05/18 02:52	1
Toluene	ND		5.0		ug/Kg		12/04/18 19:06	12/05/18 02:52	1
Xylenes, Total	ND		5.0		ug/Kg		12/04/18 19:06	12/05/18 02:52	1
Gasoline Range Organics (GRO) -C4-C12	ND		250		ug/Kg		12/04/18 19:06	12/05/18 02:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		45 - 131	12/04/18 19:06	12/05/18 02:52	1
1,2-Dichloroethane-d4 (Surr)	110		60 - 140	12/04/18 19:06	12/05/18 02:52	1
Toluene-d8 (Surr)	103		58 - 140	12/04/18 19:06	12/05/18 02:52	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	88		9.6		mg/Kg		12/04/18 18:57	12/06/18 22:49	5
Motor Oil Range Organics [C24-C36]	360		240		mg/Kg		12/04/18 18:57	12/06/18 22:49	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	12/04/18 18:57	12/06/18 22:49	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.7		mg/Kg		12/04/18 20:13	12/05/18 16:01	4
Arsenic	ND		3.4		mg/Kg		12/04/18 20:13	12/05/18 16:01	4
Barium	54		1.7		mg/Kg		12/04/18 20:13	12/05/18 16:01	4
Beryllium	ND		0.34		mg/Kg		12/04/18 20:13	12/05/18 16:01	4
Cadmium	ND		0.42		mg/Kg		12/04/18 20:13	12/05/18 16:01	4
Chromium	33		1.7		mg/Kg		12/04/18 20:13	12/05/18 16:01	4
Cobalt	5.8		0.68		mg/Kg		12/04/18 20:13	12/05/18 16:01	4
Copper	11		5.1		mg/Kg		12/04/18 20:13	12/05/18 16:01	4
Lead	17		1.7		mg/Kg		12/04/18 20:13	12/05/18 16:01	4
Molybdenum	ND		1.7		mg/Kg		12/04/18 20:13	12/05/18 16:01	4
Nickel	40		1.7		mg/Kg		12/04/18 20:13	12/05/18 16:01	4
Selenium	ND		3.4		mg/Kg		12/04/18 20:13	12/05/18 16:01	4
Silver	ND		0.85		mg/Kg		12/04/18 20:13	12/05/18 16:01	4
Thallium	ND		1.7		mg/Kg		12/04/18 20:13	12/05/18 16:01	4
Vanadium	22		1.7		mg/Kg		12/04/18 20:13	12/05/18 16:01	4
Zinc	30		5.1		mg/Kg		12/04/18 20:13	12/05/18 16:01	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.015		mg/Kg		12/05/18 10:55	12/05/18 12:50	1

TestAmerica Pleasanton

Client Sample Results

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Client Sample ID: 31320988-F-SOIL-20181204

Lab Sample ID: 720-90092-6

Date Collected: 12/04/18 10:50

Matrix: Solid

Date Received: 12/04/18 16:55

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.9		ug/Kg		12/04/18 19:06	12/05/18 03:22	1
Ethylbenzene	ND		4.9		ug/Kg		12/04/18 19:06	12/05/18 03:22	1
Toluene	ND		4.9		ug/Kg		12/04/18 19:06	12/05/18 03:22	1
Xylenes, Total	ND		4.9		ug/Kg		12/04/18 19:06	12/05/18 03:22	1
Gasoline Range Organics (GRO) -C4-C12	ND		250		ug/Kg		12/04/18 19:06	12/05/18 03:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		45 - 131	12/04/18 19:06	12/05/18 03:22	1
1,2-Dichloroethane-d4 (Surr)	107		60 - 140	12/04/18 19:06	12/05/18 03:22	1
Toluene-d8 (Surr)	102		58 - 140	12/04/18 19:06	12/05/18 03:22	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	150		4.0		mg/Kg		12/04/18 18:57	12/06/18 15:55	2
Motor Oil Range Organics [C24-C36]	530		99		mg/Kg		12/04/18 18:57	12/06/18 15:55	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	113		40 - 130	12/04/18 18:57	12/06/18 15:55	2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.8		mg/Kg		12/04/18 20:13	12/05/18 16:05	4
Arsenic	ND		3.6		mg/Kg		12/04/18 20:13	12/05/18 16:05	4
Barium	56		1.8		mg/Kg		12/04/18 20:13	12/05/18 16:05	4
Beryllium	ND		0.36		mg/Kg		12/04/18 20:13	12/05/18 16:05	4
Cadmium	ND		0.45		mg/Kg		12/04/18 20:13	12/05/18 16:05	4
Chromium	39		1.8		mg/Kg		12/04/18 20:13	12/05/18 16:05	4
Cobalt	6.7		0.72		mg/Kg		12/04/18 20:13	12/05/18 16:05	4
Copper	11		5.4		mg/Kg		12/04/18 20:13	12/05/18 16:05	4
Lead	13		1.8		mg/Kg		12/04/18 20:13	12/05/18 16:05	4
Molybdenum	ND		1.8		mg/Kg		12/04/18 20:13	12/05/18 16:05	4
Nickel	50		1.8		mg/Kg		12/04/18 20:13	12/05/18 16:05	4
Selenium	ND		3.6		mg/Kg		12/04/18 20:13	12/05/18 16:05	4
Silver	ND		0.90		mg/Kg		12/04/18 20:13	12/05/18 16:05	4
Thallium	ND		1.8		mg/Kg		12/04/18 20:13	12/05/18 16:05	4
Vanadium	24		1.8		mg/Kg		12/04/18 20:13	12/05/18 16:05	4
Zinc	31		5.4		mg/Kg		12/04/18 20:13	12/05/18 16:05	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.015		mg/Kg		12/05/18 10:55	12/05/18 12:53	1

TestAmerica Pleasanton



Client Sample Results

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Client Sample ID: 31320988-G-SOIL-20181204

Lab Sample ID: 720-90092-7

Date Collected: 12/04/18 11:00

Matrix: Solid

Date Received: 12/04/18 16:55

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.8		ug/Kg		12/04/18 19:06	12/05/18 03:52	1
Ethylbenzene	ND		4.8		ug/Kg		12/04/18 19:06	12/05/18 03:52	1
Toluene	ND		4.8		ug/Kg		12/04/18 19:06	12/05/18 03:52	1
Xylenes, Total	ND		4.8		ug/Kg		12/04/18 19:06	12/05/18 03:52	1
Gasoline Range Organics (GRO) -C4-C12	ND		240		ug/Kg		12/04/18 19:06	12/05/18 03:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	82		45 - 131	12/04/18 19:06	12/05/18 03:52	1
1,2-Dichloroethane-d4 (Surr)	110		60 - 140	12/04/18 19:06	12/05/18 03:52	1
Toluene-d8 (Surr)	99		58 - 140	12/04/18 19:06	12/05/18 03:52	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	110		9.9		mg/Kg		12/04/18 18:57	12/06/18 23:13	5
Motor Oil Range Organics [C24-C36]	420		250		mg/Kg		12/04/18 18:57	12/06/18 23:13	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	12/04/18 18:57	12/06/18 23:13	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.7		mg/Kg		12/04/18 20:13	12/05/18 16:10	4
Arsenic	ND		3.3		mg/Kg		12/04/18 20:13	12/05/18 16:10	4
Barium	65		1.7		mg/Kg		12/04/18 20:13	12/05/18 16:10	4
Beryllium	ND		0.33		mg/Kg		12/04/18 20:13	12/05/18 16:10	4
Cadmium	ND		0.41		mg/Kg		12/04/18 20:13	12/05/18 16:10	4
Chromium	42		1.7		mg/Kg		12/04/18 20:13	12/05/18 16:10	4
Cobalt	8.3		0.66		mg/Kg		12/04/18 20:13	12/05/18 16:10	4
Copper	15		5.0		mg/Kg		12/04/18 20:13	12/05/18 16:10	4
Lead	15		1.7		mg/Kg		12/04/18 20:13	12/05/18 16:10	4
Molybdenum	ND		1.7		mg/Kg		12/04/18 20:13	12/05/18 16:10	4
Nickel	63		1.7		mg/Kg		12/04/18 20:13	12/05/18 16:10	4
Selenium	ND		3.3		mg/Kg		12/04/18 20:13	12/05/18 16:10	4
Silver	ND		0.83		mg/Kg		12/04/18 20:13	12/05/18 16:10	4
Thallium	ND		1.7		mg/Kg		12/04/18 20:13	12/05/18 16:10	4
Vanadium	25		1.7		mg/Kg		12/04/18 20:13	12/05/18 16:10	4
Zinc	35		5.0		mg/Kg		12/04/18 20:13	12/05/18 16:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.015		mg/Kg		12/05/18 10:55	12/05/18 12:55	1

TestAmerica Pleasanton

Client Sample Results

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Client Sample ID: 31320988-H-SOIL-20181204

Lab Sample ID: 720-90092-8

Date Collected: 12/04/18 11:10

Matrix: Solid

Date Received: 12/04/18 16:55

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.2		ug/Kg		12/04/18 19:06	12/05/18 04:22	1
Ethylbenzene	ND		4.2		ug/Kg		12/04/18 19:06	12/05/18 04:22	1
Toluene	ND		4.2		ug/Kg		12/04/18 19:06	12/05/18 04:22	1
Xylenes, Total	ND		4.2		ug/Kg		12/04/18 19:06	12/05/18 04:22	1
Gasoline Range Organics (GRO) -C4-C12	ND		210		ug/Kg		12/04/18 19:06	12/05/18 04:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	86		45 - 131	12/04/18 19:06	12/05/18 04:22	1
1,2-Dichloroethane-d4 (Surr)	107		60 - 140	12/04/18 19:06	12/05/18 04:22	1
Toluene-d8 (Surr)	100		58 - 140	12/04/18 19:06	12/05/18 04:22	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	68		2.0		mg/Kg		12/04/18 18:57	12/06/18 23:10	1
Motor Oil Range Organics [C24-C36]	120		49		mg/Kg		12/04/18 18:57	12/06/18 23:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	79		40 - 130	12/04/18 18:57	12/06/18 23:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6		mg/Kg		12/04/18 20:13	12/05/18 16:15	4
Arsenic	ND		3.3		mg/Kg		12/04/18 20:13	12/05/18 16:15	4
Barium	54		1.6		mg/Kg		12/04/18 20:13	12/05/18 16:15	4
Beryllium	ND		0.33		mg/Kg		12/04/18 20:13	12/05/18 16:15	4
Cadmium	ND		0.41		mg/Kg		12/04/18 20:13	12/05/18 16:15	4
Chromium	28		1.6		mg/Kg		12/04/18 20:13	12/05/18 16:15	4
Cobalt	5.9		0.65		mg/Kg		12/04/18 20:13	12/05/18 16:15	4
Copper	9.9		4.9		mg/Kg		12/04/18 20:13	12/05/18 16:15	4
Lead	8.7		1.6		mg/Kg		12/04/18 20:13	12/05/18 16:15	4
Molybdenum	ND		1.6		mg/Kg		12/04/18 20:13	12/05/18 16:15	4
Nickel	40		1.6		mg/Kg		12/04/18 20:13	12/05/18 16:15	4
Selenium	ND		3.3		mg/Kg		12/04/18 20:13	12/05/18 16:15	4
Silver	ND		0.81		mg/Kg		12/04/18 20:13	12/05/18 16:15	4
Thallium	ND		1.6		mg/Kg		12/04/18 20:13	12/05/18 16:15	4
Vanadium	20		1.6		mg/Kg		12/04/18 20:13	12/05/18 16:15	4
Zinc	24		4.9		mg/Kg		12/04/18 20:13	12/05/18 16:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.016		mg/Kg		12/05/18 10:55	12/05/18 12:57	1

TestAmerica Pleasanton

Client Sample Results

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Client Sample ID: 31320988-I-SOIL-20181204

Lab Sample ID: 720-90092-9

Date Collected: 12/04/18 11:20

Matrix: Solid

Date Received: 12/04/18 16:55

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.6		ug/Kg		12/04/18 19:06	12/05/18 04:52	1
Ethylbenzene	ND		4.6		ug/Kg		12/04/18 19:06	12/05/18 04:52	1
Toluene	ND		4.6		ug/Kg		12/04/18 19:06	12/05/18 04:52	1
Xylenes, Total	ND		4.6		ug/Kg		12/04/18 19:06	12/05/18 04:52	1
Gasoline Range Organics (GRO) -C4-C12	ND		230		ug/Kg		12/04/18 19:06	12/05/18 04:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		45 - 131	12/04/18 19:06	12/05/18 04:52	1
1,2-Dichloroethane-d4 (Surr)	107		60 - 140	12/04/18 19:06	12/05/18 04:52	1
Toluene-d8 (Surr)	99		58 - 140	12/04/18 19:06	12/05/18 04:52	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	43		2.0		mg/Kg		12/04/18 18:57	12/06/18 17:08	1
Motor Oil Range Organics [C24-C36]	150		49		mg/Kg		12/04/18 18:57	12/06/18 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	115		40 - 130	12/04/18 18:57	12/06/18 17:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.5		mg/Kg		12/04/18 20:13	12/05/18 16:20	4
Arsenic	ND		3.0		mg/Kg		12/04/18 20:13	12/05/18 16:20	4
Barium	52		1.5		mg/Kg		12/04/18 20:13	12/05/18 16:20	4
Beryllium	ND		0.30		mg/Kg		12/04/18 20:13	12/05/18 16:20	4
Cadmium	ND		0.37		mg/Kg		12/04/18 20:13	12/05/18 16:20	4
Chromium	29		1.5		mg/Kg		12/04/18 20:13	12/05/18 16:20	4
Cobalt	6.0		0.60		mg/Kg		12/04/18 20:13	12/05/18 16:20	4
Copper	10		4.5		mg/Kg		12/04/18 20:13	12/05/18 16:20	4
Lead	9.1		1.5		mg/Kg		12/04/18 20:13	12/05/18 16:20	4
Molybdenum	ND		1.5		mg/Kg		12/04/18 20:13	12/05/18 16:20	4
Nickel	41		1.5		mg/Kg		12/04/18 20:13	12/05/18 16:20	4
Selenium	ND		3.0		mg/Kg		12/04/18 20:13	12/05/18 16:20	4
Silver	ND		0.75		mg/Kg		12/04/18 20:13	12/05/18 16:20	4
Thallium	ND		1.5		mg/Kg		12/04/18 20:13	12/05/18 16:20	4
Vanadium	23		1.5		mg/Kg		12/04/18 20:13	12/05/18 16:20	4
Zinc	27		4.5		mg/Kg		12/04/18 20:13	12/05/18 16:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015		0.015		mg/Kg		12/05/18 10:55	12/05/18 13:04	1

Client Sample Results

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Client Sample ID: 31320988-J-SOIL-20181204

Lab Sample ID: 720-90092-10

Date Collected: 12/04/18 11:30

Matrix: Solid

Date Received: 12/04/18 16:55

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.7		ug/Kg		12/04/18 19:06	12/05/18 05:22	1
Ethylbenzene	ND		4.7		ug/Kg		12/04/18 19:06	12/05/18 05:22	1
Toluene	ND		4.7		ug/Kg		12/04/18 19:06	12/05/18 05:22	1
Xylenes, Total	ND		4.7		ug/Kg		12/04/18 19:06	12/05/18 05:22	1
Gasoline Range Organics (GRO) -C4-C12	ND		240		ug/Kg		12/04/18 19:06	12/05/18 05:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		45 - 131	12/04/18 19:06	12/05/18 05:22	1
1,2-Dichloroethane-d4 (Surr)	108		60 - 140	12/04/18 19:06	12/05/18 05:22	1
Toluene-d8 (Surr)	104		58 - 140	12/04/18 19:06	12/05/18 05:22	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	95		1.9		mg/Kg		12/04/18 18:57	12/06/18 17:32	1
Motor Oil Range Organics [C24-C36]	260		48		mg/Kg		12/04/18 18:57	12/06/18 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	114		40 - 130	12/04/18 18:57	12/06/18 17:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.3		mg/Kg		12/04/18 20:13	12/05/18 16:25	4
Arsenic	ND		2.7		mg/Kg		12/04/18 20:13	12/05/18 16:25	4
Barium	52		1.3		mg/Kg		12/04/18 20:13	12/05/18 16:25	4
Beryllium	ND		0.27		mg/Kg		12/04/18 20:13	12/05/18 16:25	4
Cadmium	ND		0.34		mg/Kg		12/04/18 20:13	12/05/18 16:25	4
Chromium	29		1.3		mg/Kg		12/04/18 20:13	12/05/18 16:25	4
Cobalt	6.6		0.54		mg/Kg		12/04/18 20:13	12/05/18 16:25	4
Copper	10		4.0		mg/Kg		12/04/18 20:13	12/05/18 16:25	4
Lead	8.8		1.3		mg/Kg		12/04/18 20:13	12/05/18 16:25	4
Molybdenum	ND		1.3		mg/Kg		12/04/18 20:13	12/05/18 16:25	4
Nickel	44		1.3		mg/Kg		12/04/18 20:13	12/05/18 16:25	4
Selenium	ND		2.7		mg/Kg		12/04/18 20:13	12/05/18 16:25	4
Silver	ND		0.67		mg/Kg		12/04/18 20:13	12/05/18 16:25	4
Thallium	ND		1.3		mg/Kg		12/04/18 20:13	12/05/18 16:25	4
Vanadium	25		1.3		mg/Kg		12/04/18 20:13	12/05/18 16:25	4
Zinc	22		4.0		mg/Kg		12/04/18 20:13	12/05/18 16:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.015		mg/Kg		12/05/18 10:55	12/05/18 13:06	1

TestAmerica Pleasanton

Client Sample Results

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Client Sample ID: 31320988-K-SOIL-20181204

Lab Sample ID: 720-90092-11

Date Collected: 12/04/18 11:40

Matrix: Solid

Date Received: 12/04/18 16:55

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.4		ug/Kg		12/04/18 19:06	12/05/18 14:29	1
Ethylbenzene	ND		4.4		ug/Kg		12/04/18 19:06	12/05/18 14:29	1
Toluene	ND		4.4		ug/Kg		12/04/18 19:06	12/05/18 14:29	1
Xylenes, Total	ND		4.4		ug/Kg		12/04/18 19:06	12/05/18 14:29	1
Gasoline Range Organics (GRO) -C4-C12	ND		220		ug/Kg		12/04/18 19:06	12/05/18 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	79		45 - 131	12/04/18 19:06	12/05/18 14:29	1
1,2-Dichloroethane-d4 (Surr)	107		60 - 140	12/04/18 19:06	12/05/18 14:29	1
Toluene-d8 (Surr)	93		58 - 140	12/04/18 19:06	12/05/18 14:29	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	170		2.0		mg/Kg		12/04/18 18:57	12/06/18 17:56	1
Motor Oil Range Organics [C24-C36]	370		49		mg/Kg		12/04/18 18:57	12/06/18 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	126		40 - 130	12/04/18 18:57	12/06/18 17:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.5		mg/Kg		12/04/18 20:13	12/05/18 16:30	4
Arsenic	ND		2.9		mg/Kg		12/04/18 20:13	12/05/18 16:30	4
Barium	63		1.5		mg/Kg		12/04/18 20:13	12/05/18 16:30	4
Beryllium	ND		0.29		mg/Kg		12/04/18 20:13	12/05/18 16:30	4
Cadmium	ND		0.37		mg/Kg		12/04/18 20:13	12/05/18 16:30	4
Chromium	32		1.5		mg/Kg		12/04/18 20:13	12/05/18 16:30	4
Cobalt	7.6		0.59		mg/Kg		12/04/18 20:13	12/05/18 16:30	4
Copper	12		4.4		mg/Kg		12/04/18 20:13	12/05/18 16:30	4
Lead	9.2		1.5		mg/Kg		12/04/18 20:13	12/05/18 16:30	4
Molybdenum	ND		1.5		mg/Kg		12/04/18 20:13	12/05/18 16:30	4
Nickel	53		1.5		mg/Kg		12/04/18 20:13	12/05/18 16:30	4
Selenium	ND		2.9		mg/Kg		12/04/18 20:13	12/05/18 16:30	4
Silver	ND		0.74		mg/Kg		12/04/18 20:13	12/05/18 16:30	4
Thallium	ND		1.5		mg/Kg		12/04/18 20:13	12/05/18 16:30	4
Vanadium	24		1.5		mg/Kg		12/04/18 20:13	12/05/18 16:30	4
Zinc	28		4.4		mg/Kg		12/04/18 20:13	12/05/18 16:30	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017		mg/Kg		12/05/18 10:55	12/05/18 13:09	1

Client Sample Results

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Client Sample ID: 31320988-L-SOIL-20181204

Lab Sample ID: 720-90092-12

Date Collected: 12/04/18 12:00

Matrix: Solid

Date Received: 12/04/18 16:55

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg		12/04/18 19:06	12/05/18 15:00	1
Ethylbenzene	ND		5.0		ug/Kg		12/04/18 19:06	12/05/18 15:00	1
Toluene	ND		5.0		ug/Kg		12/04/18 19:06	12/05/18 15:00	1
Xylenes, Total	ND		5.0		ug/Kg		12/04/18 19:06	12/05/18 15:00	1
Gasoline Range Organics (GRO) -C4-C12	ND		250		ug/Kg		12/04/18 19:06	12/05/18 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	78		45 - 131	12/04/18 19:06	12/05/18 15:00	1
1,2-Dichloroethane-d4 (Surr)	111		60 - 140	12/04/18 19:06	12/05/18 15:00	1
Toluene-d8 (Surr)	95		58 - 140	12/04/18 19:06	12/05/18 15:00	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	270		19		mg/Kg		12/04/18 18:57	12/06/18 23:38	10
Motor Oil Range Organics [C24-C36]	1000		470		mg/Kg		12/04/18 18:57	12/06/18 23:38	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	12/04/18 18:57	12/06/18 23:38	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		mg/Kg		12/04/18 20:13	12/05/18 16:35	4
Arsenic	ND		4.0		mg/Kg		12/04/18 20:13	12/05/18 16:35	4
Barium	63		2.0		mg/Kg		12/04/18 20:13	12/05/18 16:35	4
Beryllium	ND		0.40		mg/Kg		12/04/18 20:13	12/05/18 16:35	4
Cadmium	ND		0.50		mg/Kg		12/04/18 20:13	12/05/18 16:35	4
Chromium	33		2.0		mg/Kg		12/04/18 20:13	12/05/18 16:35	4
Cobalt	7.3		0.80		mg/Kg		12/04/18 20:13	12/05/18 16:35	4
Copper	12		6.0		mg/Kg		12/04/18 20:13	12/05/18 16:35	4
Lead	10		2.0		mg/Kg		12/04/18 20:13	12/05/18 16:35	4
Molybdenum	ND		2.0		mg/Kg		12/04/18 20:13	12/05/18 16:35	4
Nickel	54		2.0		mg/Kg		12/04/18 20:13	12/05/18 16:35	4
Selenium	ND		4.0		mg/Kg		12/04/18 20:13	12/05/18 16:35	4
Silver	ND		1.0		mg/Kg		12/04/18 20:13	12/05/18 16:35	4
Thallium	ND		2.0		mg/Kg		12/04/18 20:13	12/05/18 16:35	4
Vanadium	23		2.0		mg/Kg		12/04/18 20:13	12/05/18 16:35	4
Zinc	30		6.0		mg/Kg		12/04/18 20:13	12/05/18 16:35	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.016		mg/Kg		12/05/18 10:55	12/05/18 13:11	1

TestAmerica Pleasanton

QC Sample Results

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: 720-90092-1 MS

Client Sample ID: 31320988-A-SOIL-20181204

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 256433

Prep Batch: 256417

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Benzene	ND		49.2	41.4		ug/Kg		84	70 - 130
Ethylbenzene	ND		49.2	43.9		ug/Kg		89	65 - 130
Toluene	ND		49.2	43.1		ug/Kg		88	70 - 130
m-Xylene & p-Xylene	ND		49.2	41.5		ug/Kg		84	70 - 130
o-Xylene	ND		49.2	42.3		ug/Kg		86	68 - 130
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene	89		45 - 131						
1,2-Dichloroethane-d4 (Surr)	108		60 - 140						
Toluene-d8 (Surr)	104		58 - 140						

Lab Sample ID: 720-90092-1 MSD

Client Sample ID: 31320988-A-SOIL-20181204

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 256433

Prep Batch: 256417

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzene	ND		47.6	39.6		ug/Kg		83	70 - 130	4	20
Ethylbenzene	ND		47.6	41.7		ug/Kg		88	65 - 130	5	20
Toluene	ND		47.6	40.5		ug/Kg		85	70 - 130	6	20
m-Xylene & p-Xylene	ND		47.6	39.0		ug/Kg		82	70 - 130	6	20
o-Xylene	ND		47.6	40.3		ug/Kg		85	68 - 130	5	20
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene	91		45 - 131								
1,2-Dichloroethane-d4 (Surr)	107		60 - 140								
Toluene-d8 (Surr)	103		58 - 140								

Lab Sample ID: MB 720-256433/4

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 256433

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		5.0		ug/Kg			12/04/18 20:50	1
Ethylbenzene	ND		5.0		ug/Kg			12/04/18 20:50	1
Toluene	ND		5.0		ug/Kg			12/04/18 20:50	1
Xylenes, Total	ND		5.0		ug/Kg			12/04/18 20:50	1
Gasoline Range Organics (GRO) -C4-C12	ND		250		ug/Kg			12/04/18 20:50	1
MB MB									
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene	103		45 - 131		12/04/18 20:50	1			
1,2-Dichloroethane-d4 (Surr)	105		60 - 140		12/04/18 20:50	1			
Toluene-d8 (Surr)	107		58 - 140		12/04/18 20:50	1			

TestAmerica Pleasanton

QC Sample Results

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-256433/5
Matrix: Solid
Analysis Batch: 256433

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	45.8		ug/Kg		92	70 - 130
Ethylbenzene	50.0	47.4		ug/Kg		95	80 - 137
Toluene	50.0	44.8		ug/Kg		90	75 - 120
m-Xylene & p-Xylene	50.0	46.2		ug/Kg		92	70 - 146
o-Xylene	50.0	46.6		ug/Kg		93	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	101		45 - 131
1,2-Dichloroethane-d4 (Surr)	100		60 - 140
Toluene-d8 (Surr)	105		58 - 140

Lab Sample ID: LCS 720-256433/7
Matrix: Solid
Analysis Batch: 256433

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	1030		ug/Kg		103	70 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	104		45 - 131
1,2-Dichloroethane-d4 (Surr)	101		60 - 140
Toluene-d8 (Surr)	108		58 - 140

Lab Sample ID: LCSD 720-256433/6
Matrix: Solid
Analysis Batch: 256433

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	45.4		ug/Kg		91	70 - 130	1	20
Ethylbenzene	50.0	46.5		ug/Kg		93	80 - 137	2	20
Toluene	50.0	43.6		ug/Kg		87	75 - 120	3	20
m-Xylene & p-Xylene	50.0	45.6		ug/Kg		91	70 - 146	1	20
o-Xylene	50.0	46.0		ug/Kg		92	70 - 140	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	101		45 - 131
1,2-Dichloroethane-d4 (Surr)	100		60 - 140
Toluene-d8 (Surr)	105		58 - 140

Lab Sample ID: LCSD 720-256433/8
Matrix: Solid
Analysis Batch: 256433

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	1000	1030		ug/Kg		103	70 - 122	0	20

TestAmerica Pleasanton

QC Sample Results

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-256433/8
Matrix: Solid
Analysis Batch: 256433

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	105		45 - 131
1,2-Dichloroethane-d4 (Surr)	104		60 - 140
Toluene-d8 (Surr)	106		58 - 140

Lab Sample ID: MB 720-256441/4
Matrix: Solid
Analysis Batch: 256441

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg			12/05/18 11:57	1
Ethylbenzene	ND		5.0		ug/Kg			12/05/18 11:57	1
Toluene	ND		5.0		ug/Kg			12/05/18 11:57	1
Xylenes, Total	ND		5.0		ug/Kg			12/05/18 11:57	1
Gasoline Range Organics (GRO) -C4-C12	ND		250		ug/Kg			12/05/18 11:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		45 - 131		12/05/18 11:57	1
1,2-Dichloroethane-d4 (Surr)	100		60 - 140		12/05/18 11:57	1
Toluene-d8 (Surr)	106		58 - 140		12/05/18 11:57	1

Lab Sample ID: LCS 720-256441/33
Matrix: Solid
Analysis Batch: 256441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	47.4		ug/Kg		95	70 - 130
Ethylbenzene	50.0	49.9		ug/Kg		100	80 - 137
Toluene	50.0	46.7		ug/Kg		93	75 - 120
m-Xylene & p-Xylene	50.0	48.9		ug/Kg		98	70 - 146
o-Xylene	50.0	49.1		ug/Kg		98	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	102		45 - 131
1,2-Dichloroethane-d4 (Surr)	99		60 - 140
Toluene-d8 (Surr)	107		58 - 140

Lab Sample ID: LCS 720-256441/7
Matrix: Solid
Analysis Batch: 256441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	1010		ug/Kg		101	70 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	103		45 - 131

TestAmerica Pleasanton

QC Sample Results

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-256441/7
Matrix: Solid
Analysis Batch: 256441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		60 - 140
Toluene-d8 (Surr)	107		58 - 140

Lab Sample ID: LCSD 720-256441/34
Matrix: Solid
Analysis Batch: 256441

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	47.4		ug/Kg		95	70 - 130	0	20
Ethylbenzene	50.0	49.0		ug/Kg		98	80 - 137	2	20
Toluene	50.0	46.0		ug/Kg		92	75 - 120	2	20
m-Xylene & p-Xylene	50.0	48.3		ug/Kg		97	70 - 146	1	20
o-Xylene	50.0	48.7		ug/Kg		97	70 - 140	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	99		45 - 131
1,2-Dichloroethane-d4 (Surr)	101		60 - 140
Toluene-d8 (Surr)	106		58 - 140

Lab Sample ID: LCSD 720-256441/8
Matrix: Solid
Analysis Batch: 256441

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	1000	963		ug/Kg		96	70 - 122	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	102		45 - 131
1,2-Dichloroethane-d4 (Surr)	100		60 - 140
Toluene-d8 (Surr)	107		58 - 140

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-256415/1-B
Matrix: Solid
Analysis Batch: 256446

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 256415

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0		mg/Kg		12/04/18 15:26	12/06/18 03:31	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		12/04/18 15:26	12/06/18 03:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	90		40 - 130	12/04/18 15:26	12/06/18 03:31	1

TestAmerica Pleasanton

QC Sample Results

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-256415/2-B				Client Sample ID: Lab Control Sample			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 256446				Prep Batch: 256415			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Diesel Range Organics [C10-C28]	167	162		mg/Kg		97	50 - 150
Surrogate	%Recovery	LCS Qualifier	Limits				
p-Terphenyl	115		40 - 130				

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-256435/1-A				Client Sample ID: Method Blank					
Matrix: Solid				Prep Type: Total/NA					
Analysis Batch: 256495				Prep Batch: 256435					
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		12/04/18 20:13	12/05/18 14:53	1
Arsenic	ND		1.0		mg/Kg		12/04/18 20:13	12/05/18 14:53	1
Barium	ND		0.50		mg/Kg		12/04/18 20:13	12/05/18 14:53	1
Beryllium	ND		0.10		mg/Kg		12/04/18 20:13	12/05/18 14:53	1
Cadmium	ND		0.13		mg/Kg		12/04/18 20:13	12/05/18 14:53	1
Chromium	ND		0.50		mg/Kg		12/04/18 20:13	12/05/18 14:53	1
Cobalt	ND		0.20		mg/Kg		12/04/18 20:13	12/05/18 14:53	1
Copper	ND		1.5		mg/Kg		12/04/18 20:13	12/05/18 14:53	1
Lead	ND		0.50		mg/Kg		12/04/18 20:13	12/05/18 14:53	1
Molybdenum	ND		0.50		mg/Kg		12/04/18 20:13	12/05/18 14:53	1
Nickel	ND		0.50		mg/Kg		12/04/18 20:13	12/05/18 14:53	1
Selenium	ND		1.0		mg/Kg		12/04/18 20:13	12/05/18 14:53	1
Silver	ND		0.25		mg/Kg		12/04/18 20:13	12/05/18 14:53	1
Thallium	ND		0.50		mg/Kg		12/04/18 20:13	12/05/18 14:53	1
Vanadium	ND		0.50		mg/Kg		12/04/18 20:13	12/05/18 14:53	1
Zinc	ND		1.5		mg/Kg		12/04/18 20:13	12/05/18 14:53	1

Lab Sample ID: LCS 720-256435/2-A				Client Sample ID: Lab Control Sample			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 256495				Prep Batch: 256435			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	48.8		mg/Kg		98	80 - 120
Arsenic	50.0	50.4		mg/Kg		101	80 - 120
Barium	50.0	49.4		mg/Kg		99	80 - 120
Beryllium	50.0	48.1		mg/Kg		96	80 - 120
Cadmium	50.0	50.2		mg/Kg		100	80 - 120
Chromium	50.0	50.8		mg/Kg		102	80 - 120
Cobalt	50.0	51.7		mg/Kg		103	80 - 120
Copper	50.0	50.2		mg/Kg		100	80 - 120
Lead	50.0	50.7		mg/Kg		101	80 - 120
Molybdenum	50.0	50.8		mg/Kg		102	80 - 120
Nickel	50.0	51.4		mg/Kg		103	80 - 120
Selenium	50.0	48.3		mg/Kg		97	80 - 120
Silver	25.0	24.3		mg/Kg		97	80 - 120

TestAmerica Pleasanton

QC Sample Results

Client: HydroChemPSC
 Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-256435/2-A
 Matrix: Solid
 Analysis Batch: 256495

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 256435
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Thallium	50.0	50.3		mg/Kg		101	80 - 120
Vanadium	50.0	50.3		mg/Kg		101	80 - 120
Zinc	50.0	50.2		mg/Kg		100	80 - 120

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-256359/1-A
 Matrix: Solid
 Analysis Batch: 256473

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 256359

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017		mg/Kg		12/05/18 10:55	12/05/18 12:09	1

Lab Sample ID: LCS 720-256359/2-A
 Matrix: Solid
 Analysis Batch: 256473

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 256359
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.833	0.824		mg/Kg		99	80 - 120

QC Association Summary

Client: HydroChemPSC
 Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

GC/MS VOA

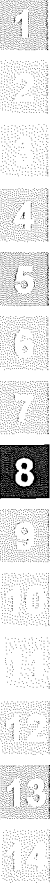
Prep Batch: 256417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90092-1	31320988-A-SOIL-20181204	Total/NA	Solid	5030B	
720-90092-2	31320988-B-SOIL-20181204	Total/NA	Solid	5030B	
720-90092-3	31320988-C-SOIL-20181204	Total/NA	Solid	5030B	
720-90092-4	31320988-D-SOIL-20181204	Total/NA	Solid	5030B	
720-90092-5	31320988-E-SOIL-20181204	Total/NA	Solid	5030B	
720-90092-6	31320988-F-SOIL-20181204	Total/NA	Solid	5030B	
720-90092-7	31320988-G-SOIL-20181204	Total/NA	Solid	5030B	
720-90092-8	31320988-H-SOIL-20181204	Total/NA	Solid	5030B	
720-90092-9	31320988-I-SOIL-20181204	Total/NA	Solid	5030B	
720-90092-10	31320988-J-SOIL-20181204	Total/NA	Solid	5030B	
720-90092-11	31320988-K-SOIL-20181204	Total/NA	Solid	5030B	
720-90092-12	31320988-L-SOIL-20181204	Total/NA	Solid	5030B	
720-90092-1 MS	31320988-A-SOIL-20181204	Total/NA	Solid	5030B	
720-90092-1 MSD	31320988-A-SOIL-20181204	Total/NA	Solid	5030B	

Analysis Batch: 256433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90092-1	31320988-A-SOIL-20181204	Total/NA	Solid	8260B/CA_LUFT MS	256417
720-90092-2	31320988-B-SOIL-20181204	Total/NA	Solid	8260B/CA_LUFT MS	256417
720-90092-3	31320988-C-SOIL-20181204	Total/NA	Solid	8260B/CA_LUFT MS	256417
720-90092-4	31320988-D-SOIL-20181204	Total/NA	Solid	8260B/CA_LUFT MS	256417
720-90092-5	31320988-E-SOIL-20181204	Total/NA	Solid	8260B/CA_LUFT MS	256417
720-90092-6	31320988-F-SOIL-20181204	Total/NA	Solid	8260B/CA_LUFT MS	256417
720-90092-7	31320988-G-SOIL-20181204	Total/NA	Solid	8260B/CA_LUFT MS	256417
720-90092-8	31320988-H-SOIL-20181204	Total/NA	Solid	8260B/CA_LUFT MS	256417
720-90092-9	31320988-I-SOIL-20181204	Total/NA	Solid	8260B/CA_LUFT MS	256417
720-90092-10	31320988-J-SOIL-20181204	Total/NA	Solid	8260B/CA_LUFT MS	256417
MB 720-256433/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-256433/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-256433/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-256433/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-256433/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
720-90092-1 MS	31320988-A-SOIL-20181204	Total/NA	Solid	8260B/CA_LUFT MS	256417
720-90092-1 MSD	31320988-A-SOIL-20181204	Total/NA	Solid	8260B/CA_LUFT MS	256417

TestAmerica Pleasanton



QC Association Summary

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

GC/MS VOA (Continued)

Analysis Batch: 256441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90092-11	31320988-K-SOIL-20181204	Total/NA	Solid	8260B/CA_LUFT MS	256417
720-90092-12	31320988-L-SOIL-20181204	Total/NA	Solid	8260B/CA_LUFT MS	256417
MB 720-256441/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-256441/33	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-256441/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-256441/34	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-256441/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

GC Semi VOA

Prep Batch: 256415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90092-1	31320988-A-SOIL-20181204	Total/NA	Solid	3546	
720-90092-2	31320988-B-SOIL-20181204	Total/NA	Solid	3546	
720-90092-3	31320988-C-SOIL-20181204	Total/NA	Solid	3546	
720-90092-4	31320988-D-SOIL-20181204	Total/NA	Solid	3546	
720-90092-5	31320988-E-SOIL-20181204	Total/NA	Solid	3546	
720-90092-6	31320988-F-SOIL-20181204	Total/NA	Solid	3546	
720-90092-7	31320988-G-SOIL-20181204	Total/NA	Solid	3546	
720-90092-8	31320988-H-SOIL-20181204	Total/NA	Solid	3546	
720-90092-9	31320988-I-SOIL-20181204	Total/NA	Solid	3546	
720-90092-10	31320988-J-SOIL-20181204	Total/NA	Solid	3546	
720-90092-11	31320988-K-SOIL-20181204	Total/NA	Solid	3546	
720-90092-12	31320988-L-SOIL-20181204	Total/NA	Solid	3546	
MB 720-256415/1-B	Method Blank	Total/NA	Solid	3546	
LCS 720-256415/2-B	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 256446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-256415/1-B	Method Blank	Total/NA	Solid	8015B	256415
LCS 720-256415/2-B	Lab Control Sample	Total/NA	Solid	8015B	256415

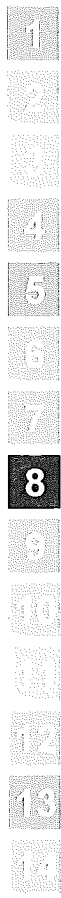
Analysis Batch: 256515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90092-1	31320988-A-SOIL-20181204	Total/NA	Solid	8015B	256415
720-90092-8	31320988-H-SOIL-20181204	Total/NA	Solid	8015B	256415

Analysis Batch: 256535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90092-2	31320988-B-SOIL-20181204	Total/NA	Solid	8015B	256415
720-90092-3	31320988-C-SOIL-20181204	Total/NA	Solid	8015B	256415
720-90092-4	31320988-D-SOIL-20181204	Total/NA	Solid	8015B	256415
720-90092-5	31320988-E-SOIL-20181204	Total/NA	Solid	8015B	256415
720-90092-6	31320988-F-SOIL-20181204	Total/NA	Solid	8015B	256415
720-90092-7	31320988-G-SOIL-20181204	Total/NA	Solid	8015B	256415

TestAmerica Pleasanton



QC Association Summary

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

GC Semi VOA (Continued)

Analysis Batch: 256535 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90092-9	31320988-I-SOIL-20181204	Total/NA	Solid	8015B	256415
720-90092-10	31320988-J-SOIL-20181204	Total/NA	Solid	8015B	256415
720-90092-11	31320988-K-SOIL-20181204	Total/NA	Solid	8015B	256415
720-90092-12	31320988-L-SOIL-20181204	Total/NA	Solid	8015B	256415

Metals

Prep Batch: 256359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90092-1	31320988-A-SOIL-20181204	Total/NA	Solid	7471A	
720-90092-2	31320988-B-SOIL-20181204	Total/NA	Solid	7471A	
720-90092-3	31320988-C-SOIL-20181204	Total/NA	Solid	7471A	
720-90092-4	31320988-D-SOIL-20181204	Total/NA	Solid	7471A	
720-90092-5	31320988-E-SOIL-20181204	Total/NA	Solid	7471A	
720-90092-6	31320988-F-SOIL-20181204	Total/NA	Solid	7471A	
720-90092-7	31320988-G-SOIL-20181204	Total/NA	Solid	7471A	
720-90092-8	31320988-H-SOIL-20181204	Total/NA	Solid	7471A	
720-90092-9	31320988-I-SOIL-20181204	Total/NA	Solid	7471A	
720-90092-10	31320988-J-SOIL-20181204	Total/NA	Solid	7471A	
720-90092-11	31320988-K-SOIL-20181204	Total/NA	Solid	7471A	
720-90092-12	31320988-L-SOIL-20181204	Total/NA	Solid	7471A	
MB 720-256359/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-256359/2-A	Lab Control Sample	Total/NA	Solid	7471A	

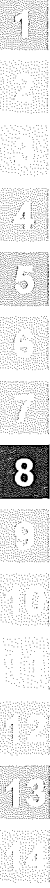
Prep Batch: 256435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90092-1	31320988-A-SOIL-20181204	Total/NA	Solid	3050B	
720-90092-2	31320988-B-SOIL-20181204	Total/NA	Solid	3050B	
720-90092-3	31320988-C-SOIL-20181204	Total/NA	Solid	3050B	
720-90092-4	31320988-D-SOIL-20181204	Total/NA	Solid	3050B	
720-90092-5	31320988-E-SOIL-20181204	Total/NA	Solid	3050B	
720-90092-6	31320988-F-SOIL-20181204	Total/NA	Solid	3050B	
720-90092-7	31320988-G-SOIL-20181204	Total/NA	Solid	3050B	
720-90092-8	31320988-H-SOIL-20181204	Total/NA	Solid	3050B	
720-90092-9	31320988-I-SOIL-20181204	Total/NA	Solid	3050B	
720-90092-10	31320988-J-SOIL-20181204	Total/NA	Solid	3050B	
720-90092-11	31320988-K-SOIL-20181204	Total/NA	Solid	3050B	
720-90092-12	31320988-L-SOIL-20181204	Total/NA	Solid	3050B	
MB 720-256435/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-256435/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 256473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90092-1	31320988-A-SOIL-20181204	Total/NA	Solid	7471A	256359
720-90092-2	31320988-B-SOIL-20181204	Total/NA	Solid	7471A	256359
720-90092-3	31320988-C-SOIL-20181204	Total/NA	Solid	7471A	256359
720-90092-4	31320988-D-SOIL-20181204	Total/NA	Solid	7471A	256359
720-90092-5	31320988-E-SOIL-20181204	Total/NA	Solid	7471A	256359
720-90092-6	31320988-F-SOIL-20181204	Total/NA	Solid	7471A	256359
720-90092-7	31320988-G-SOIL-20181204	Total/NA	Solid	7471A	256359

TestAmerica Pleasanton



QC Association Summary

Client: HydroChemPSC
 Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

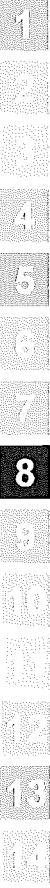
Metals (Continued)

Analysis Batch: 256473 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90092-8	31320988-H-SOIL-20181204	Total/NA	Solid	7471A	256359
720-90092-9	31320988-I-SOIL-20181204	Total/NA	Solid	7471A	256359
720-90092-10	31320988-J-SOIL-20181204	Total/NA	Solid	7471A	256359
720-90092-11	31320988-K-SOIL-20181204	Total/NA	Solid	7471A	256359
720-90092-12	31320988-L-SOIL-20181204	Total/NA	Solid	7471A	256359
MB 720-256359/1-A	Method Blank	Total/NA	Solid	7471A	256359
LCS 720-256359/2-A	Lab Control Sample	Total/NA	Solid	7471A	256359

Analysis Batch: 256495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90092-1	31320988-A-SOIL-20181204	Total/NA	Solid	6010B	256435
720-90092-2	31320988-B-SOIL-20181204	Total/NA	Solid	6010B	256435
720-90092-3	31320988-C-SOIL-20181204	Total/NA	Solid	6010B	256435
720-90092-4	31320988-D-SOIL-20181204	Total/NA	Solid	6010B	256435
720-90092-5	31320988-E-SOIL-20181204	Total/NA	Solid	6010B	256435
720-90092-6	31320988-F-SOIL-20181204	Total/NA	Solid	6010B	256435
720-90092-7	31320988-G-SOIL-20181204	Total/NA	Solid	6010B	256435
720-90092-8	31320988-H-SOIL-20181204	Total/NA	Solid	6010B	256435
720-90092-9	31320988-I-SOIL-20181204	Total/NA	Solid	6010B	256435
720-90092-10	31320988-J-SOIL-20181204	Total/NA	Solid	6010B	256435
720-90092-11	31320988-K-SOIL-20181204	Total/NA	Solid	6010B	256435
720-90092-12	31320988-L-SOIL-20181204	Total/NA	Solid	6010B	256435
MB 720-256435/1-A	Method Blank	Total/NA	Solid	6010B	256435
LCS 720-256435/2-A	Lab Control Sample	Total/NA	Solid	6010B	256435



Lab Chronicle

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Client Sample ID: 31320988-A-SOIL-20181204

Lab Sample ID: 720-90092-1

Date Collected: 12/04/18 10:00

Matrix: Solid

Date Received: 12/04/18 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			256417	12/04/18 19:06	GLL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	256433	12/05/18 05:53	AJS	TAL PLS
Total/NA	Prep	3546			256415	12/04/18 15:26	WGR	TAL PLS
Total/NA	Analysis	8015B		1	256515	12/06/18 22:40	JXL	TAL PLS
Total/NA	Prep	3050B			256435	12/04/18 20:13	SUN	TAL PLS
Total/NA	Analysis	6010B		4	256495	12/05/18 15:31	OBI	TAL PLS
Total/NA	Prep	7471A			256359	12/05/18 10:55	GLL	TAL PLS
Total/NA	Analysis	7471A		1	256473	12/05/18 12:41	MAG	TAL PLS

Client Sample ID: 31320988-B-SOIL-20181204

Lab Sample ID: 720-90092-2

Date Collected: 12/04/18 10:10

Matrix: Solid

Date Received: 12/04/18 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			256417	12/04/18 19:06	GLL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	256433	12/05/18 01:22	AJS	TAL PLS
Total/NA	Prep	3546			256415	12/04/18 18:57	WGR	TAL PLS
Total/NA	Analysis	8015B		1	256535	12/06/18 14:17	JXL	TAL PLS
Total/NA	Prep	3050B			256435	12/04/18 20:13	SUN	TAL PLS
Total/NA	Analysis	6010B		4	256495	12/05/18 15:36	OBI	TAL PLS
Total/NA	Prep	7471A			256359	12/05/18 10:55	GLL	TAL PLS
Total/NA	Analysis	7471A		1	256473	12/05/18 12:44	MAG	TAL PLS

Client Sample ID: 31320988-C-SOIL-20181204

Lab Sample ID: 720-90092-3

Date Collected: 12/04/18 10:20

Matrix: Solid

Date Received: 12/04/18 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			256417	12/04/18 19:06	GLL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	256433	12/05/18 01:52	AJS	TAL PLS
Total/NA	Prep	3546			256415	12/04/18 18:57	WGR	TAL PLS
Total/NA	Analysis	8015B		1	256535	12/06/18 14:41	JXL	TAL PLS
Total/NA	Prep	3050B			256435	12/04/18 20:13	SUN	TAL PLS
Total/NA	Analysis	6010B		4	256495	12/05/18 15:51	OBI	TAL PLS
Total/NA	Prep	7471A			256359	12/05/18 10:55	GLL	TAL PLS
Total/NA	Analysis	7471A		1	256473	12/05/18 12:46	MAG	TAL PLS

Client Sample ID: 31320988-D-SOIL-20181204

Lab Sample ID: 720-90092-4

Date Collected: 12/04/18 10:30

Matrix: Solid

Date Received: 12/04/18 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			256417	12/04/18 19:06	GLL	TAL PLS

TestAmerica Pleasanton



Lab Chronicle

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Client Sample ID: 31320988-D-SOIL-20181204

Lab Sample ID: 720-90092-4

Date Collected: 12/04/18 10:30

Matrix: Solid

Date Received: 12/04/18 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	256433	12/05/18 02:22	AJS	TAL PLS
Total/NA	Prep	3546			256415	12/04/18 18:57	WGR	TAL PLS
Total/NA	Analysis	8015B		5	256535	12/06/18 22:25	JXL	TAL PLS
Total/NA	Prep	3050B			256435	12/04/18 20:13	SUN	TAL PLS
Total/NA	Analysis	6010B		4	256495	12/05/18 15:56	OBI	TAL PLS
Total/NA	Prep	7471A			256359	12/05/18 10:55	GLL	TAL PLS
Total/NA	Analysis	7471A		1	256473	12/05/18 12:48	MAG	TAL PLS

Client Sample ID: 31320988-E-SOIL-20181204

Lab Sample ID: 720-90092-5

Date Collected: 12/04/18 10:40

Matrix: Solid

Date Received: 12/04/18 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			256417	12/04/18 19:06	GLL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	256433	12/05/18 02:52	AJS	TAL PLS
Total/NA	Prep	3546			256415	12/04/18 18:57	WGR	TAL PLS
Total/NA	Analysis	8015B		5	256535	12/06/18 22:49	JXL	TAL PLS
Total/NA	Prep	3050B			256435	12/04/18 20:13	SUN	TAL PLS
Total/NA	Analysis	6010B		4	256495	12/05/18 16:01	OBI	TAL PLS
Total/NA	Prep	7471A			256359	12/05/18 10:55	GLL	TAL PLS
Total/NA	Analysis	7471A		1	256473	12/05/18 12:50	MAG	TAL PLS

Client Sample ID: 31320988-F-SOIL-20181204

Lab Sample ID: 720-90092-6

Date Collected: 12/04/18 10:50

Matrix: Solid

Date Received: 12/04/18 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			256417	12/04/18 19:06	GLL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	256433	12/05/18 03:22	AJS	TAL PLS
Total/NA	Prep	3546			256415	12/04/18 18:57	WGR	TAL PLS
Total/NA	Analysis	8015B		2	256535	12/06/18 15:55	JXL	TAL PLS
Total/NA	Prep	3050B			256435	12/04/18 20:13	SUN	TAL PLS
Total/NA	Analysis	6010B		4	256495	12/05/18 16:05	OBI	TAL PLS
Total/NA	Prep	7471A			256359	12/05/18 10:55	GLL	TAL PLS
Total/NA	Analysis	7471A		1	256473	12/05/18 12:53	MAG	TAL PLS

Client Sample ID: 31320988-G-SOIL-20181204

Lab Sample ID: 720-90092-7

Date Collected: 12/04/18 11:00

Matrix: Solid

Date Received: 12/04/18 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			256417	12/04/18 19:06	GLL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	256433	12/05/18 03:52	AJS	TAL PLS

TestAmerica Pleasanton



Lab Chronicle

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Client Sample ID: 31320988-G-SOIL-20181204

Lab Sample ID: 720-90092-7

Date Collected: 12/04/18 11:00

Matrix: Solid

Date Received: 12/04/18 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			256415	12/04/18 18:57	WGR	TAL PLS
Total/NA	Analysis	8015B		5	256535	12/06/18 23:13	JXL	TAL PLS
Total/NA	Prep	3050B			256435	12/04/18 20:13	SUN	TAL PLS
Total/NA	Analysis	6010B		4	256495	12/05/18 16:10	OBI	TAL PLS
Total/NA	Prep	7471A			256359	12/05/18 10:55	GLL	TAL PLS
Total/NA	Analysis	7471A		1	256473	12/05/18 12:55	MAG	TAL PLS

Client Sample ID: 31320988-H-SOIL-20181204

Lab Sample ID: 720-90092-8

Date Collected: 12/04/18 11:10

Matrix: Solid

Date Received: 12/04/18 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			256417	12/04/18 19:06	GLL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	256433	12/05/18 04:22	AJS	TAL PLS
Total/NA	Prep	3546			256415	12/04/18 18:57	WGR	TAL PLS
Total/NA	Analysis	8015B		1	256515	12/06/18 23:10	JXL	TAL PLS
Total/NA	Prep	3050B			256435	12/04/18 20:13	SUN	TAL PLS
Total/NA	Analysis	6010B		4	256495	12/05/18 16:15	OBI	TAL PLS
Total/NA	Prep	7471A			256359	12/05/18 10:55	GLL	TAL PLS
Total/NA	Analysis	7471A		1	256473	12/05/18 12:57	MAG	TAL PLS

Client Sample ID: 31320988-I-SOIL-20181204

Lab Sample ID: 720-90092-9

Date Collected: 12/04/18 11:20

Matrix: Solid

Date Received: 12/04/18 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			256417	12/04/18 19:06	GLL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	256433	12/05/18 04:52	AJS	TAL PLS
Total/NA	Prep	3546			256415	12/04/18 18:57	WGR	TAL PLS
Total/NA	Analysis	8015B		1	256535	12/06/18 17:08	JXL	TAL PLS
Total/NA	Prep	3050B			256435	12/04/18 20:13	SUN	TAL PLS
Total/NA	Analysis	6010B		4	256495	12/05/18 16:20	OBI	TAL PLS
Total/NA	Prep	7471A			256359	12/05/18 10:55	GLL	TAL PLS
Total/NA	Analysis	7471A		1	256473	12/05/18 13:04	MAG	TAL PLS

Client Sample ID: 31320988-J-SOIL-20181204

Lab Sample ID: 720-90092-10

Date Collected: 12/04/18 11:30

Matrix: Solid

Date Received: 12/04/18 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			256417	12/04/18 19:06	GLL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	256433	12/05/18 05:22	AJS	TAL PLS
Total/NA	Prep	3546			256415	12/04/18 18:57	WGR	TAL PLS

TestAmerica Pleasanton



Lab Chronicle

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Client Sample ID: 31320988-J-SOIL-20181204

Lab Sample ID: 720-90092-10

Date Collected: 12/04/18 11:30

Matrix: Solid

Date Received: 12/04/18 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	256535	12/06/18 17:32	JXL	TAL PLS
Total/NA	Prep	3050B			256435	12/04/18 20:13	SUN	TAL PLS
Total/NA	Analysis	6010B		4	256495	12/05/18 16:25	OBI	TAL PLS
Total/NA	Prep	7471A			256359	12/05/18 10:55	GLL	TAL PLS
Total/NA	Analysis	7471A		1	256473	12/05/18 13:06	MAG	TAL PLS

Client Sample ID: 31320988-K-SOIL-20181204

Lab Sample ID: 720-90092-11

Date Collected: 12/04/18 11:40

Matrix: Solid

Date Received: 12/04/18 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			256417	12/04/18 19:06	GLL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	256441	12/05/18 14:29	A1C	TAL PLS
Total/NA	Prep	3546			256415	12/04/18 18:57	WGR	TAL PLS
Total/NA	Analysis	8015B		1	256535	12/06/18 17:56	JXL	TAL PLS
Total/NA	Prep	3050B			256435	12/04/18 20:13	SUN	TAL PLS
Total/NA	Analysis	6010B		4	256495	12/05/18 16:30	OBI	TAL PLS
Total/NA	Prep	7471A			256359	12/05/18 10:55	GLL	TAL PLS
Total/NA	Analysis	7471A		1	256473	12/05/18 13:09	MAG	TAL PLS

Client Sample ID: 31320988-L-SOIL-20181204

Lab Sample ID: 720-90092-12

Date Collected: 12/04/18 12:00

Matrix: Solid

Date Received: 12/04/18 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			256417	12/04/18 19:06	GLL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	256441	12/05/18 15:00	A1C	TAL PLS
Total/NA	Prep	3546			256415	12/04/18 18:57	WGR	TAL PLS
Total/NA	Analysis	8015B		10	256535	12/06/18 23:38	JXL	TAL PLS
Total/NA	Prep	3050B			256435	12/04/18 20:13	SUN	TAL PLS
Total/NA	Analysis	6010B		4	256495	12/05/18 16:35	OBI	TAL PLS
Total/NA	Prep	7471A			256359	12/05/18 10:55	GLL	TAL PLS
Total/NA	Analysis	7471A		1	256473	12/05/18 13:11	MAG	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Accreditation/Certification Summary

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
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Method Summary

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTV S	8260B / CA LUFT MS	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
3546	Microwave Extraction	SW846	TAL PLS
5030B	Purge and Trap	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Sample Summary

Client: HydroChemPSC
Project/Site: 31320988 Fresno

TestAmerica Job ID: 720-90092-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90092-1	31320988-A-SOIL-20181204	Solid	12/04/18 10:00	12/04/18 16:55
720-90092-2	31320988-B-SOIL-20181204	Solid	12/04/18 10:10	12/04/18 16:55
720-90092-3	31320988-C-SOIL-20181204	Solid	12/04/18 10:20	12/04/18 16:55
720-90092-4	31320988-D-SOIL-20181204	Solid	12/04/18 10:30	12/04/18 16:55
720-90092-5	31320988-E-SOIL-20181204	Solid	12/04/18 10:40	12/04/18 16:55
720-90092-6	31320988-F-SOIL-20181204	Solid	12/04/18 10:50	12/04/18 16:55
720-90092-7	31320988-G-SOIL-20181204	Solid	12/04/18 11:00	12/04/18 16:55
720-90092-8	31320988-H-SOIL-20181204	Solid	12/04/18 11:10	12/04/18 16:55
720-90092-9	31320988-I-SOIL-20181204	Solid	12/04/18 11:20	12/04/18 16:55
720-90092-10	31320988-J-SOIL-20181204	Solid	12/04/18 11:30	12/04/18 16:55
720-90092-11	31320988-K-SOIL-20181204	Solid	12/04/18 11:40	12/04/18 16:55
720-90092-12	31320988-L-SOIL-20181204	Solid	12/04/18 12:00	12/04/18 16:55




720-90092

187107

Note to Sampler: Within one day of sample collection, email a photo or photocopy of CoC to pgespoilscocs@ch2m.com.

12/7/2018

Client Name Zantha Ricks		Client Email Ricks, Zantha ZXS8@pge.com		Laboratory Name Test America		Laboratory Work Order 925-597-7321		Analysis Requested (check all that apply)													
Site Name 31320988		Site Location Chesnut Ave. & Florence Ave. Fresno, CA.		Sampler Name Alex Manalili		Sampler Company PSC		Sampler Email rich.ricks@pscnow.com		Order No. 31320988											
Turnaround Time (check one)		EFS Name (if known)		Estimated Amount of Spoils (CY)																	
<input type="radio"/> 1 work day <input checked="" type="radio"/> 2 work days <input type="radio"/> 3 work days <input type="radio"/> 4 work days <input type="radio"/> 5 work days		Zantha Ricks																			
C	Sample Name	PF-SL-SOIL-yyyyymmdd (37 max char). PF should be Project or Facility descriptor (Order Number when possible) and SL should be Sample Location descriptor. Use UPPER CASE. Use hyphens, but do not use spaces or any other symbols yyyyymmdd is the date.		Sample		Sample Containers			Laboratory Notes	TPH motor oil (8015B)	TPH diesel (8015B)	TPH gas/BTEX (8015M/8021B or 8260)	CAM 17 metals (8010B, 7471A)	PCBs (8082)	VOCs (8260B)	SVOCs (8270)	TPH mineral oil (8015B)	Pesticides (8081)	Asbestos (DLM)		
		Date	Time (24-hour)	Type	Volume	No	Preservative														
1		31320988-A-SOIL-20181204	12/04/18	1000	Jar	8.16 oz	2	4 C													
2		31320988-B-SOIL-20181204	12/04/18	1010	Jar	8.16 oz	2	4 C													
3		31320988-C-SOIL-20181204	12/04/18	1020	Jar	8.16 oz	2	4 C													
4		31320988-D-SOIL-20181204	12/04/18	1030	Jar	8.16 oz	2	4 C													
5		31320988-E-SOIL-20181204	12/04/18	1040	Jar	8.16 oz	2	4 C													
6		31320988-F-SOIL-20181204	12/04/18	1050	Jar	8.16 oz	2	4 C													
7		31320988-G-SOIL-20181204	12/04/18	1100	Jar	8.16 oz	2	4 C													
8		31320988-H-SOIL-20181204	12/04/18	1110	Jar	8.16 oz	2	4 C													
Instructions to Laboratory (check all that apply) <input checked="" type="checkbox"/> 1. Email CoC & sample receipt form to pgespoilscocs@ch2m.com . <input checked="" type="checkbox"/> 2. Perform analyses and report per the PG&E non-GT QAWP <input checked="" type="checkbox"/> 3. Upload EDD file to EQuIS. <input checked="" type="checkbox"/> 4. Email report to pgespoilscocs@ch2m.com . <input checked="" type="checkbox"/> 5. Email report to Client. <input type="checkbox"/> 6. Email report to others (specify) <input checked="" type="checkbox"/> 7. Run WET extraction for CAM 17 M <input checked="" type="checkbox"/> 8. Run WET for any metal if TTLC re <input checked="" type="checkbox"/> 9. Run TCLP for any metal if TTLC re <input type="checkbox"/> 10. Run Asbestos (CARB 435 Level).										 720-90092 Chain of Custody		Supplemental 3-7c									
Relinquished by PRINT ALEX MANALILI		Date/Time 12-4-18		Received by PRINT Jean Muller		Date/Time 12-4-18 / 655															
SIGN <i>Alex Manalili</i>		SIGN <i>Jean Muller</i>																			
Relinquished by PRINT		Date/Time		Received by PRINT		Date/Time															
SIGN		SIGN																			
Comments										RUSH!											
SCSI PO# 332250					PSC Job# 178-1603-0017-J0403																

PRO-14171459AC 11-18-17

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720-90092

187107

Note to Sampler: Within one day of sample collection, email a photo or photocopy of CoC to pgespoilscocs@ch2m.com.

Client Name Zantha Ricks		Client Email Ricks, Zantha ZXS8@pge.com		Laboratory Name Test America		Laboratory Work Order 925-597-7321		Analysis Requested (check all that apply)																							
Site Name 31320988		Site Location Chesnut Ave. & Florence Ave. Fresno, CA		Sampler Name Alex Manalili		Sampler Company PSC		Sampler Email rich.ricks@pscnow.com		Order No. 31320988																					
Sampler Phone 916-747-2986		EFS Name (if known) Zantha Ricks		Turnaround Time (check one) <input type="radio"/> 1 work day <input checked="" type="radio"/> 2 work days <input type="radio"/> 3 work days <input type="radio"/> 4 work days <input type="radio"/> 5 work days		Estimated Amount of Spoils (CY)																									
PF-SL-SOIL-yyyyymmdd (37 max char). PF should be Project or Facility descriptor (Order Number when possible) and SL should be Sample Location descriptor. Use UPPER CASE. Use hyphens, but do not use spaces or any other symbols. yyyyymmdd is the date.												Sample		Sample Containers				Laboratory Notes													
												Date		Time (24-hour)		Type	Volume	No	Preservative												
1	31320988-I-SOIL-20181204											12/04/18		1120		Jar	8.16 oz	2	4 C												
2	31320988-J-SOIL-20181204											12/04/18		1130		Jar	8.16 oz	2	4 C												
3	31320988-K-SOIL-20181204											12/04/18		1140		Jar	8.16 oz	2	4 C												
4	31320988-L-SOIL-20181204											12/04/18		1200		Jar	8.16 oz	2	4 C												
5																															
6																															
7																															
8																															
Instructions to Laboratory (check all that apply)												Routine		Supplemental																	
<input checked="" type="checkbox"/> 1. Email CoC & sample receipt form to pgespoilscocs@ch2m.com.																															
<input checked="" type="checkbox"/> 2. Perform analyses and report per the PG&E non-GT QAWP.																															
<input checked="" type="checkbox"/> 3. Upload EDD file to EQuIS.																															
<input checked="" type="checkbox"/> 4. Email report to pgespoilscocs@ch2m.com.																															
<input checked="" type="checkbox"/> 5. Email report to Client.																															
<input type="checkbox"/> 6. Email report to others (specify).																															
<input checked="" type="checkbox"/> 7. Run WET extraction for CAM 17 Metals and hold.																															
<input checked="" type="checkbox"/> 8. Run WET for any metal if TTLC result ≥ 10xSTLC regulatory limit.																															
<input checked="" type="checkbox"/> 9. Run TCLP for any metal if TTLC result ≥ 20xTCLP Limit.																															
<input type="checkbox"/> 10. Run Asbestos (CARB 435 Level A) if Asbestos is detected in PLM.																															
Relinquished by ALEX MANALILI												Date/Time 12-4-18 1655		Received by Jean Mullen				Date/Time 12-4-18 1655													
Relinquished by [Signature]												Date/Time		Received by [Signature]				Date/Time													
Comments																															
SCS1 PO# 332250 PSC Job# 178-1603-0017-J0403																															

PROJ01/14/15/AL 11 to 17

RUSH!

Login Sample Receipt Checklist

Client: HydroChemPSC

Job Number: 720-90092-1

Login Number: 90092

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



CSM REPORT FOR PUBLIC NOTICING

PROJECT INFORMATION (DATA PULLED FROM GEOTRACKER) - [MAP THIS SITE](#)

<u>SITE NAME / ADDRESS</u>	<u>STATUS</u>	<u>STATUS DATE</u>	<u>RELEASE REPORT DATE</u>	<u>AGE OF CASE</u>	<u>CLEANUP OVERSIGHT AGENCIES</u>
SENIOR CITIZENS VILLAGE (Global ID: T0601900267) 1917 CHESTNUT AVE S FRESNO, CA 93702	Completed - Case Closed	9/8/2014	11/27/1990	29	CENTRAL VALLEY RWQCB (REGION 5F) (LEAD) - CASE #: 5T10000270 CASEWORKER: MICHEALE EASLEY - SUPERVISOR: SHELTON GRAY FRESNO COUNTY - CASE #: FA0271041 CASEWORKER: FRESNO COUNTY DPH, ENVIRONMENTAL HEALTH DIV - SUPERVISOR: NONE SPECIFIED

SITE HISTORY

The case was opened following an unauthorized release from an underground storage tank system at the subject site. Corrective action is underway as directed by the CVRWQCB. Corrective action may consist of preliminary site investigation, planning and implementation of remedial action, verification monitoring, or a combination thereof. A summary of the site history is available by clicking on either the "Cleanup Status History", "Regulatory Activities" or the "Site Maps/Documents" tab. For a complete site history the case file at the CVRWQCB should be consulted.

RESPONSIBLE PARTIES

<u>NAME</u>	<u>ORGANIZATION</u>	<u>CONTACT TYPE</u>	<u>ADDRESS</u>	<u>CITY</u>	<u>EMAIL</u>
SENIOR CITIZENS VILLAGE	SENIOR CITIZENS VILLAGE5538	PRIMARY RESPONSIBLE PARTY	1917 S Chestnut Ave	Fresno	

CLEANUP ACTION INFO

<u>ACTION TYPE</u>	<u>BEGIN DATE</u>	<u>END DATE</u>	<u>PHASE</u>	<u>CONTAMINANT MASS REMOVED</u>	<u>DESCRIPTION</u>
MONITORED NATURAL ATTENUATION	8/29/2013				

RISK INFORMATION[VIEW LTCP CHECKLIST](#)[VIEW PATH TO CLOSURE PLAN](#)[VIEW CASE REVIEWS](#)

<u>CONTAMINANTS OF CONCERN</u>	<u>CURRENT LAND USE</u>	<u>BENEFICIAL USE</u>	<u>DISCHARGE SOURCE</u>	<u>DATE REPORTED</u>	<u>STOP METHOD</u>	<u>NEARBY / IMPACTED WELLS</u>	
Gasoline	Residential, Sensitive Use	GW - Industrial Process Supply (PROC), GW - Municipal and Domestic Supply	Other	11/27/1990		0	
<u>FREE PRODUCT</u>	<u>OTHER CONSTITUENTS</u>	<u>NAME OF WATER SYSTEM</u>	<u>LAST REGULATORY ACTIVITY</u>	<u>LAST ESI UPLOAD</u>	<u>LAST EDF UPLOAD</u>	<u>EXPECTED CLOSURE DATE</u>	<u>MOST RECENT CLOSURE REQUEST</u>
NO	NO	City of Fresno	9/8/2014	4/29/2014			4/29/2014

COPH WELLS WITHIN 1500 FEET OF THIS SITE

NONE

CALCULATED FIELDS (BASED ON LATITUDE / LONGITUDE)

<u>APN</u>	<u>GW BASIN NAME</u>	<u>WATERSHED NAME</u>
47302034S	San Joaquin Valley - Kings (5-022.08)	South Valley Floor - Fresno (551.30)
<u>COUNTY</u>	<u>PUBLIC WATER SYSTEM(S)</u>	
Fresno	• FRESNO, CITY OF - 2326 FRESNO STREET, FRESNO, CA 93703	

MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN GROUNDWATER[VIEW ESI SUBMITTALS](#)

NO GROUNDWATER DATA HAS BEEN SUBMITTED TO GEOTRACKER ESI FOR THIS SITE

MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN SOIL[VIEW ESI SUBMITTALS](#)

NO SOIL DATA HAS BEEN SUBMITTED TO GEOTRACKER ESI FOR THIS SITE

MOST RECENT GEO_WELL DATA[VIEW ESI SUBMITTALS](#)

NO GEO_WELL DATA HAS BEEN SUBMITTED TO GEOTRACKER ESI FOR THIS SITE

CSM REPORT FOR PUBLIC NOTICING

PROJECT INFORMATION (DATA PULLED FROM GEOTRACKER) - [MAP THIS SITE](#)

SITE NAME / ADDRESS	STATUS	STATUS DATE	RELEASE REPORT DATE	AGE OF CASE	CLEANUP OVERSIGHT AGENCIES
U.S.D.A. AGRICULTURE RESEARCH (Global ID: T0601900555) 2021 PEACH FRESNO, CA 93711	Completed - Case Closed	4/4/1996	7/13/1995	25	FRESNO COUNTY (LEAD) CASEWORKER: <i>FRESNO COUNTY DPH, ENVIRONMENTAL HEALTH DIV - SUPERVISOR: NONE SPECIFIED</i> CENTRAL VALLEY RWQCB (REGION 5F) - CASE #: 5T10000572

SITE HISTORY
<NO SITE HISTORY ENTERED>

RESPONSIBLE PARTIES					
NAME	ORGANIZATION	CONTACT TYPE	ADDRESS	CITY	EMAIL
U.S.D.A.	U.S.D.A.5823	PRIMARY RESPONSIBLE PARTY	800 Buchanan St	Albany	

CLEANUP ACTION INFO
NO CLEANUP ACTIONS HAVE BEEN REPORTED

RISK INFORMATION							VIEW CASE REVIEWS
CONTAMINANTS OF CONCERN	CURRENT LAND USE	BENEFICIAL USE	DISCHARGE SOURCE	DATE REPORTED	STOP METHOD	NEARBY / IMPACTED WELLS	
Diesel			Other	7/13/1995		0	
<u>FREE PRODUCT</u>	<u>OTHER CONSTITUENTS</u>	<u>NAME OF WATER SYSTEM</u>	<u>LAST REGULATORY ACTIVITY</u>	<u>LAST ESI UPLOAD</u>	<u>EXPECTED CLOSURE DATE</u>	<u>MOST RECENT CLOSURE REQUEST</u>	
			1/1/1965				

CDPH WELLS WITHIN 1500 FEET OF THIS SITE
NONE

CALCULATED FIELDS (BASED ON LATITUDE / LONGITUDE)		
APN	GW BASIN NAME	WATERSHED NAME
No APN Found	San Joaquin Valley - Kings (5-022.08)	South Valley Floor - Fresno (551.30)
COUNTY	PUBLIC WATER SYSTEM(S)	
Fresno	FRESNO, CITY OF - 2326 FRESNO STREET, FRESNO, CA 93703	

MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN GROUNDWATER [VIEW ESI SUBMITTALS](#)
NO GROUNDWATER DATA HAS BEEN SUBMITTED TO GEOTRACKER ESI FOR THIS SITE

MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN SOIL [VIEW ESI SUBMITTALS](#)
NO SOIL DATA HAS BEEN SUBMITTED TO GEOTRACKER ESI FOR THIS SITE

MOST RECENT GEO_WELL DATA [VIEW ESI SUBMITTALS](#)
NO GEO_WELL DATA HAS BEEN SUBMITTED TO GEOTRACKER ESI FOR THIS SITE

AGENCY RECORDS SUMMARY

	AGENCY	DATE	CONTACT NAME	PHONE	TYPE OF INFORMATION
Fresno County	Building Department	1/10/2019	Clerk		Contacted for information regarding building permits for the site.
City of Fresno	Planning Department	1/10/2019	Clerk		Contacted for information regarding zoning for the site.
State	Department of Toxic Substance Control	1/10/2019	Diane Harden	(916) 255-3705	List of properties that show up on Cal-Sites database or on SLIC database.
State	Fire Marshal Pipeline Safety Office	1/10/2019	Lisa Dowdy	(562) 982-9115	Contacted for information regarding pipelines on or near the site.
California State	State Water Resource Control Board	1/10/2019	Deanna Flanagin	(916) 341-5808	Permit information on HIST UST.
County	Environmental Resources	1/10/2019	Clerk		Lists of properties that handle hazardous materials, USTs, wells, and hazardous material incidents were reviewed.
County	Department of Agriculture				Lists of permits for pesticide use on agricultural properties.

Facility and Site Information

FACILITY: USDA AGRICULTURE RESEARCH FACILITY ID#: 170542
 SITE ADDRESS: 2221 S PEACH
 FRESNO CA 93727 CENSUS TRACT: 140600
 CITY CODE: 0005
 MAILING ADDRESS: 2021 S PEACH FACILITY PHONE: 209
 CARE OF: FRESNO CA 93727 APN:

Owner Information

OWNER: USDA OWNER ID#: 010674
 DBA:
 STREET ADDRESS: 800 BUCHANAN OWNER HM PHONE: 415-559-6019
 ALBANY CA 94710 OWNER WK PHONE:
 MAILING ADDRESS: 800 BUCHANAN
 CARE OF: ALBANY CA 94710

Account/Billing Information

BILLING uses Owner Mailing Address:

USDA 800 BUCHANAN ALBANY CA 94710

ACCOUNT ID#: 0005345

ANNIVERSARY DATE:
 ACCOUNT STATUS: 01
 EXEMPT FROM BILLING?: N
 PENALTY EXEMPT?: N

Program And/Or Water Records Linked To This Facility:

RECORD ID: PR 032722 6301-UNDERGROUND TANK REMOVAL/CLOSURE W/1 TANK
 Status: 02 - Inactive
 Costar ID#: Designated Employee: 1000 UGST/DISCLOSURE
 State ID#: 90139

DISPLAY IN CONSPICUOUS PLACE



47573

DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH FEE RECEIPT /

March 8, 1990

RECEIVED OF USD AGRICULTURE
THE SUM OF \$ 56.00 FOR ENVIRONMENTAL HEALTH FEE TO ENGAGE IN THE ACTIVITY(S) OF
UNDERGROUND STORAGE TANK STATE SURCHARGE 1 TANK

FOR THE PERIOD March 8, 1990 TO March 7, 1991

MAILING ADDRESS

USD AGRICULTURE
2221 S PEACH
FRESNO, CA 93721

COST CENTER 4890

BUSINESS I.D. NO. 9762X

** THANK YOU FOR YOUR PAYMENT **

SITE:

2221 S PEACH
FRESNO, CA 93721

BY GEORGE BLETH - DIRECTOR



March 27, 1990

Department of
Geology

United States Department
of Agriculture
2021 S. Peach Ave.
Fresno, California 93727

Attn: Cliff King:

Subject: Certification of Response Action
Location: 2221 S. Peach Ave., Fresno, Ca

This letter confirms the completion of a site investigation and/or remedial act with regard to a release of hazardous substances or waste in relation to underground storage tanks at the above site. With the provision that the information provided by this office is accurate and representative of existing conditions, no further action is required at this time.

The site should now be properly closed, including backfilling as necessary. If a tank has been abandoned in place, the existence of the tank(s) and fittings must be recorded on the property deed.

We are required by the State to advise you that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present, or future operations at the site. Nor does it relieve you of the responsibility to clean up existing, additional or previously unidentified conditions at the site which cause or threaten to cause pollution or nuisance or otherwise threaten to water quality or public health. Additionally, changes in the present proposed use of the site may require further site characterization and mitigation activity. It is the property owner's responsibility to notify this agency of any changes in report content, future contamination findings, or site usage.

Further, nothing in the above determination: 1) is intended or shall be construed to limit the rights of any parties with respect to claims arising out of or relating to the deposit or disposal at any other location of substances removed from the site; 2) is intended or shall be construed to limit or preclude the County or any other agency from taking any action authorized by law, including, but not limited to, any future enforcement actions. Notwithstanding compliance with any previous directives, you are required to take further actions as are necessary to protect public health and the environment.

Please call me at (209) 445-3271 if you have any questions.

Respectfully,

A handwritten signature in cursive script that reads "Lancelot Leitch".

Lancelot Leitch
Environmental Health Analyst
Environmental Health System

EHS #2432
LL:lfb

MEMO ROUTING SLIP

Date 3-8-90

To: Peggy Wilkinson

From: Jim Armstrong

Remarks:
Cliff -
USDA
U.S. Dept. of Agriculture

Round a tank at
2221 S. Peach Ave

4' by 5.5'

2021 Speech
U.S.P.A.

Suggest

B, T, X, B

TDH Gas

TDH Diesel

418.1

268-7021 - Bill Sheebe

FRESNO COUNTY DEPARTMENT OF HEALTH

Hazardous Materials/Underground Storage Tanks

Telephone Call Record

U.S.D.A. - DEPT of Agr.

(Facility Name/ERT Incident #)

2221 S. PEACH

(Facility Address)

LUKE KINTY

(Person Called)

268-7021

(Phone #)

3/8/90

(Date)

11:30

(Time)

Summary of Discussion

Called Mr. Kinty & informed him of NEED FOR PERMITS TO BE TAKEN OUT AND THAT WE COULD NOT GO OUT TO VERIFY SAMPLES UNTIL A PERMIT IS PULLED.

HE SAID HE'D BE IN OFFICE today to Pull PERMIT.

HE SAID THEY 1st THOUGHT IT WAS A WELL when they began EXCAVATING. I told him Gertz still should have known BETTER AND PULLED a Permit.

(Analyst Name)

UGST File HazMat File Haz Waste File ERT Report File

FRESNO COUNTY DEPARTMENT OF HEALTH

Hazardous Materials/Underground Storage Tanks

Telephone Call Record

U.S.D.A. DEPT of AGRICULTURE
(Facility Name/ERT Incident #)

2221 S. PEACH
(Facility Address)

BILL SLEEHE (TWINNING) 268-7021
(Person Called) (Phone #)

3/3/90 11:05
(Date) (Time)

Summary of Discussion

Called Bill concerning conversation he had w/ Jim Armstrong -
IT SEEMS U.S.D.A. Recently purchased property and were doing
grading (gentle crest) and hit a U.G.S.T. THE TANK WAS
REMOVED WITHOUT PERMITS. THEY CONTACTED Twinning about
Sampling ? Twinning notified us.

CHET KING w/ U.S.D.A. IS CONTACT PERSON 453-3007

ED Yamamoto
(Analyst Name)

UGST File HazMat File Haz Waste File ERT Report File



The Twining Laboratories, Inc.

Since 1898

Geotechnical and Environmental Consultants • Engineering and Chemical Laboratories

March 22, 1990

TL 390-0045-01
Invoice 21593

For: United States Department of
Agriculture (USDA), ARS, PWA, AO
2021 South Peach Avenue
Fresno, California 93727

Project: USDA (newly acquired property)
2221 South Peach Avenue
Fresno, California 93727

Subject: Underground Storage Tank
Excavation and Removal of a Soil
Sample

Dear Mr. King:

This report presents the analytical results of a soil sample retrieved several days after the removal of one underground storage tank (fuel oil) unearthed during land development at the above referenced project location. Based on information provided by the USDA, the tank was removed by Gentz Construction Company. Upon removal of the tank, a tear on the top was evident which was attributed to cultivation machinery. No free product, petroleum odor or discoloration of soil was noted to be present in the excavation. The required permit to transport and rinse the tank was obtained from the FCEHD, by the USDA on March 8, 1990. Attached to the report are a site map and a copy of the chain-of-custody documentation.

The scope of our testing was initiated per the verbal authorization of Mr. Clifford C. King, Purchasing Agent, USDA and followed by the receipt of USDA purchase order #40-9135-0-214, dated March 8, 1990.

SCOPE OF WORK

Services performed by The Twining Laboratories, Inc, consisted of the sampling and analysis of one soil sample retrieved from underneath the former location of a 550 gallon underground storage tank. The dimensions of the tank were 5-1/2 feet in length by 4 feet in diameter.

The underground storage tank had a product history of fuel oil. The approximate location of the former tank location is shown on Drawing No. 1. The project site is located at 2221 South Peach Avenue in Fresno, California.

■ 2527 Fresno Street • P.O. Box 1472
Fresno, California 93716 • (209) 268-7021

□ 1405 Granite Lane, Suite 1
Modesto, California 95351 • (209) 523-0994

□ 9401 West Goshen Avenue
Visalia, California 93291 • (209) 651-2190

□ 3701 Pegasus Drive, Suite 124
Bakersfield, California 93308 • (805) 393-5088

UNITED STATES DEPARTMENT
OF AGRICULTURE (USDA)
2221 SOUTH PEACH AVENUE
FRESNO, CALIFORNIA

TL 390-0045-01
PAGE 2

SAMPLING PROCEDURE

The soil sample (S-1, T-1) was obtained by Mr. Raymond Kurz of The Twining Laboratories, Inc., on March 9, 1990. Soil sample S-1 was retrieved from the depth of approximately 9 feet below site grade (BSG) and approximately three feet below the former location of the tank. These locations and depths were specified by Mr. Lancelot Leitch with the Fresno County Environmental Health Department. The sample location is shown on Drawing No. 1. The soil sample was collected using 6-inch long by 2-inch diameter brass sleeves, capped with teflon tape and plastic fittings, sealed with synthetic tape, and immediately packed on ice for shipment to our laboratory. The sample was clearly identified and banded with shipping seals. The sample retrieved in the field was brought to our laboratory in Fresno, California on March 9, 1990. The results of the sample analyses are presented in the attached table.

If you should have any questions regarding the information contained herein, please do not hesitate to contact our office.

Sincerely,

THE TWINING LABORATORIES, INC.



William P. Sheehe
Geologist
Environmental Engineering Department

RECEIVED
MAR 23 1990

ENVIRONMENTAL HEALTH SYSTEM
FRESNO COUNTY DEPT. OF HEALTH

WPS/rb

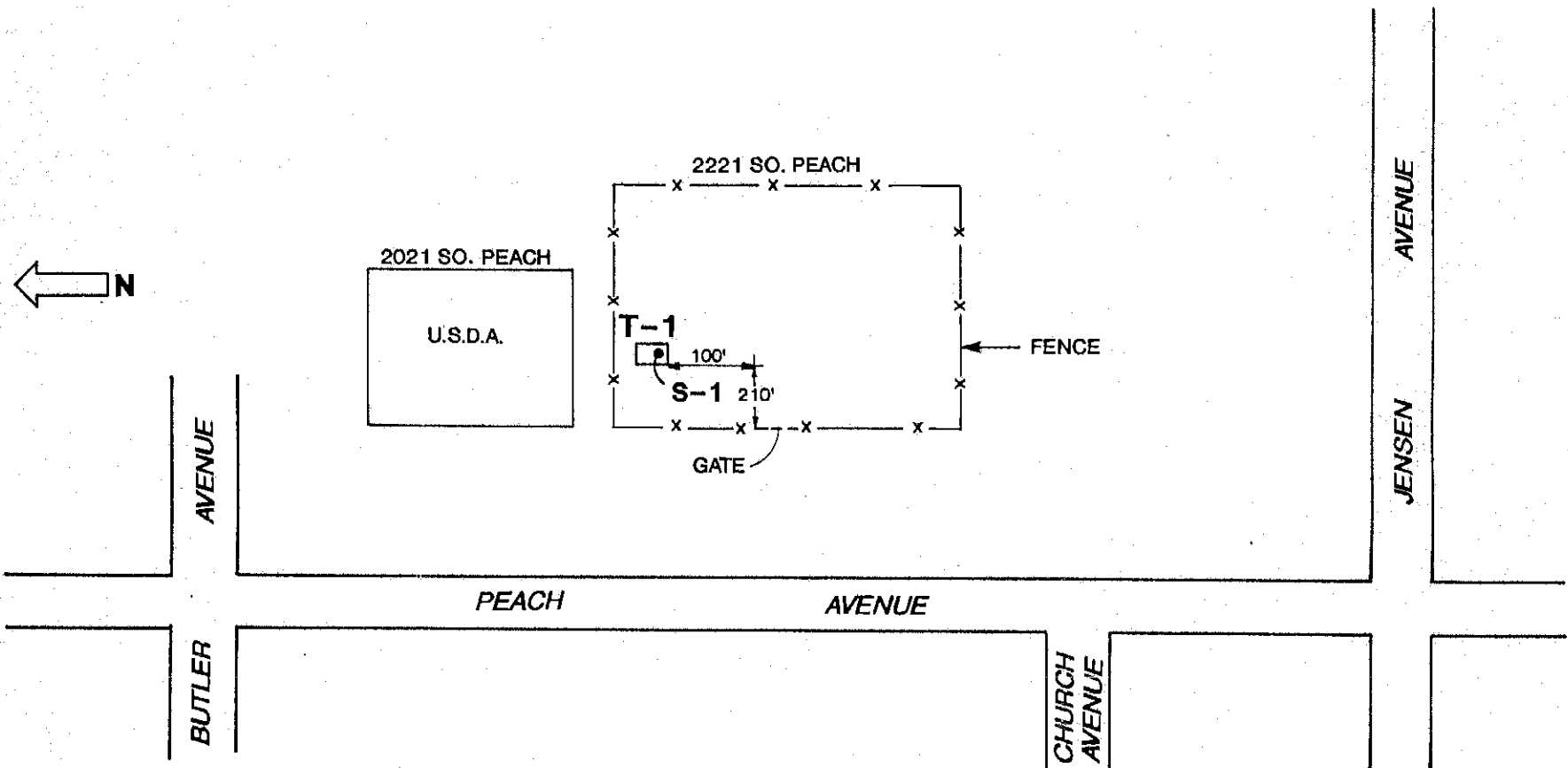
2c: Herewith
1c: Fresno County Environmental Health Department
Attn: Mr. Lancelot Leitch, Registered Health Analyst

The Twining Laboratories, Inc.
Fresno Modesto Visalia Bakersfield

UNDERGROUND STORAGE TANK REMOVAL

T-1

Depth To Bottom Of Tank : 6'
 Depth To Sample : 9'
 Volume Of Tank : 550 Gal.
 Tank Dimensions : 6' Length 4' Diameter
 Material Stored In Tank : Unknown



C/O U.S.D.A.
 2021 SOUTH PEACH STREET
 FRESNO, CALIFORNIA

SCALE: NTS	DATE 3-21-90
DRAWN BY: MHM	APPROVED BY: <i>[Signature]</i>
	DRAWING No. 1 of 1



The Twining
 Laboratories, Inc.

FRESNO/MODESTO/VISALIA/BAKERSFIELD



The Twining Laboratories, Inc.

Since 1898

Geotechnical and Environmental Consultants • Engineering and Chemical Laboratories

REPORT DATE : March 20, 1990 PROJECT MGR; Bill Sheehe
EXAMINATION NO.: 690-1181.1

CLIENT : USDA
National Finance Center
P.O. Box 60075
New Orleans, Louisiana 70160

PROJECT : USDA, ARS, AO
2021 S. Peach Avenue
Fresno, CA 93727

DATE SAMPLED : 03-09-90 at N/A by R. Kurz

DATE RECEIVED: 03-09-90 at 1125 from R. Kurz

In accordance with your instructions, the samples submitted were analyzed for the components specified. Results are enclosed on the following pages. If you have any questions concerning the analysis or results, please contact us. Thank you for letting us serve you.

THE TWINING LABORATORIES, INC.

Lynn Jaeger
Manager, Chemistry Division

LJ:mrđ
lc:herewith

2527 Fresno Street • P.O. Box 1472
Fresno, California 93716 • (209) 268-7021

□ 1405 Granite Lane, Suite 1
Modesto, California 95351 • (209) 523-0994

□ 9401 West Goshen Avenue
Visalia, California 93291 • (209) 651-2190

□ 3701 Pegasus Drive, Suite 124
Bakersfield, California 93308 • (805) 393-5088

REPORT DATE : March 20, 1990
EXAMINATION NO.: 690-1181.1

PROJECT MGR; Bill Sheehe
page 1 of 1

CLIENT : USDA

PROJECT : USDA, ARS, AO
2021 S. Peach Avenue
Fresno, CA 93727

DATE SAMPLED : 03-09-90 at N/A by R. Kurz
DATE RECEIVED: 03-09-90 at 1125 from R. Kurz
DATE PREPARED: 03-09-90
DATE ANALYZED: 03-14-90
ANALYZED BY : S. Singh, M. Peterson
REVIEWED BY : J. Koelewyn

SAMPLE TYPE : Soil
SAMPLE IDENTIFICATION: S-1, T-1 550 Gallon Unknown

	RESULT (mg/kg)	METHOD	MDL (mg/kg)
Benzene	ND	8020	0.05
Toluene	ND	8020	0.05
Ethylbenzene	ND	8020	0.05
Xylenes	ND	8020	0.20
TPH-Gasoline	ND	GC/FID	0.5
TPH-Diesel	ND	GC/FID	10
TRPH-by Infrared	55	Mod 418.1	5

NOTES:

mg/kg: Milligram per kilogram
Preparation (BTEX & Gasoline) : 5020
Preparation (Diesel): LUFT-Shake
TPH: Total Petroleum Hydrocarbons
TRPH: Total Recoverable Petroleum Hydrocarbons
MDL: Method Detection Limit
ND : None Detected

The Twining Laboratories, Inc.

Fresno Modesto Visalia Bakersfield

Date: 3-9-90

THE TWINING LABORATORIES, INC.
2527 Fresno Street, Fresno, CA 93721
(209) 268-7021

690-1181

Chain-of-Custody and Analysis Request Record

Project Name: U.S. Dept of Agriculture Project No.: _____ Project Manager: Bill Shook

Sampler: Ray King Company: TLI Phone: 268-7021 Del. By: Ray King

SEND REPORT TO:

SAMPLING LOCATION -OR- BILLING (Circle One):

EXPECTED TURNAROUND:

Company: U.S.D.A.

Company: U.S.D.A.

Rush

Address: 2021 South Beach St.

Address: 2221 South Beach

Routine

Fresno, Ca

Fresno, Ca

(Specify Time: _____)

Contact Name: Cliff King

Contact Name: same

Phone: 453-3009

Phone: _____

COPIES TO:

Analysis Request

Lab* ID #	Client Sample ID #	Sample Description	Date/Time Sampled	Analysis Requested	Number of Containers Per Sample
	<u>S-1 - T-1 - 550 ml unknown</u>	<u>SOIL</u>	<u>3-9-90/</u>	<u>BTX4E - TPH - PAH + Diesel oil + Grease 418.1</u>	<u>1</u>

*Lab use only.

1. Raymond Floyd King Relinquished By Twining Labs Inc Affiliation 3-9-90 Date/Time 3. Todd D. Received By TL Affiliation 3/9/90 Date/Time 12:55 pm

2. N. Ehrnke Received By TL Affiliation 3-9-90 Date/Time 11:25am Received in Lab By _____ Affiliation _____ Date/Time _____

County of
FRESNO
 Department of Health

POSTING INFORMATION	
BATCH #:	
BATCH DATE:	
TRANSFER TO:	
TRANSFER AMOUNT:	

RECEIPT	PAYMENT DATE			REC'D BY	STAFF NO.
	MO	DA	YR		
	01	24	92	PP	0103101
PAYEE NAME					
Photocopies - E.H.					
LAST NAME		FIRST NAME		MIDDLE NAME	

PAYOR NAME			PAID BY	COST CENTER
Paul Awoska			5	4600
LAST NAME			FIRST NAME	MIDDLE NAME

CHECK OR MONEY ORDER NUMBER	AMOUNT RECEIVED	PAYMENT MODE	METHOD RECEIVED
—	010990050	1. CASH 2. CHECK 3. MONEY ORDER 4. CREDIT CARD	1. U.S. MAIL 2. INTEROFFICE 3. PERSON

5 copies
 3 @ 10¢ = 30
 2 @ 5¢ = 20
 .50

Note - 2021 A. Peach (Hay)
 2221 A. Peach (UGST)

RECEIPT NO.
No 49164

When completed return
to
County of Fresno Dept. of Health
P.O. Box 11800
Fresno, California 93775

APPLICATION
ENVIRONMENTAL HEALTH FEE RECEIPT

X H

Date 3.8.90

Business I.D. No. A 9762

1. Business U.S.D. Agriculture

2. Inspection Site 2221 S. PEACH

Street FRESNO Phone Car 93721

City Same State Ca Zip 93721

3. Billing address Same

Street _____
City _____ State _____ Zip _____

4. List all activities the business is to be engage in. (e.g.; Bar, Restaurant, Meat Market, Pool, etc.)

Underground Storage Tank Removal
State Surcharge

5. Number of units, square footage, or seating capacity.

ONE UGST.

6. Date of business commencement 3.8.90

7. If this business is seasonal or temporary, how many months of the year will it operate? _____

8. Name of applicant Cl. Hoard C. King

9. Signature Cl. Hoard C. King

NOTICE: Notify the Environmental Health Department of any change in the type of business activity, name or ownership by calling 445-3357. Failure to notify the Environmental Health Department may result in late fee penalties and/or referral of past due account to a collections agency.

FOR OFFICE USE ONLY

Fee calculated as follows: COST CENTER

1. No. _____, Units ONE, Fee 102⁰⁰

Activity Underground Tank Removal

2. No. _____, Units _____, Fee 56⁰⁰

Activity State Surcharge

3. No. _____, Units _____, Fee _____

Activity _____

Penalty _____

Total 158⁰⁰



FORM 'B': TANK

UNDERGROUND STORAGE TANK PROGRAM TANK PERMIT APPLICATION INFORMATION

COMPLETE A SEPARATE FORM WITH THE FOLLOWING INFORMATION FOR EACH TANK.

MARK ONLY ONE ITEM: 1 NEW PERMIT, 2 INTERIM PERMIT, 3 RENEWAL PERMIT, 4 AMENDED PERMIT, 5 CHANGE OF INFORMATION, 6 TEMPORARY TANK CLOSURE, 7 PERMANENTLY CLOSED TANK, 8 TANK REMOVED. FACILITY/SITE NAME WHERE TANK IS INSTALLED: M.S.S.B. FARM TANK - YES [X] NO []

I. TANK DESCRIPTION COMPLETE ALL ITEMS - IF UNKNOWN - SO SPECIFY

A. OWNERS TANK ID #: UNKNOWN B. MANUFACTURED BY: UNKNOWN C. YEAR INSTALLED: UNKNOWN D. TANK CAPACITY IN GALLONS: 550

II. TANK CONTENTS IF (A.1) IS MARKED, COMPLETE ITEM C. IF (A.1) IS NOT MARKED, COMPLETE ITEM D.

A. 1 MOTOR VEHICLE FUEL, 2 PETROLEUM, 3 CHEMICAL PRODUCT, 4 OIL, 5 HAZARDOUS, 80 EMPTY, 95 UNKNOWN. B. 1 PRODUCT, 2 WASTE. C. 1 UNLEADED, 2 LEADED, 3 DIESEL, 4 GASAHOL, 5 JET FUEL, 6 AVIATION GAS, 7 METHANOL, 99 OTHER. D. IF NOT MOTOR VEHICLE FUEL, ENTER NAME OF HAZARDOUS SUBSTANCE STORED & C.A.S. #: UNKNOWN. C.A.S. #:

III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOX A, B, C, & D

A. TYPE OF SYSTEM: 1 DOUBLE WALLED, 2 SINGLE WALLED, 3 SINGLE WALLED WITH EXTERIOR LINER, 4 SECONDARY CONTAINMENT, 95 UNKNOWN, 99 OTHER. B. TANK MATERIAL: 1 STEEL/IRON, 2 STAINLESS STEEL, 3 FIBERGLASS, 4 STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC, 5 CONCRETE, 6 POLYVINYL CHLORIDE, 7 ALUMINUM, 8 100% METHANOL COMPATIBLE FRP, 9 BRONZE, 10 GALVANIZED STEEL, 95 UNKNOWN, 99 OTHER. C. INTERIOR LINING: 1 RUBBER LINED, 2 ALKYD LINING, 3 EPOXY LINING, 4 PHENOLIC LINING, 5 GLASS LINING, 6 UNLINED, 95 UNKNOWN, 99 OTHER. IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES [] NO [X]. D. CORROSION PROTECTION: 1 POLYETHYLENE WRAP, 2 TAR OR ASPHALT, 3 VINYL WRAP, 4 FIBERGLASS REINFORCED PLASTIC, 5 CATHODIC PROTECTION, 91 NONE, 95 UNKNOWN, 99 OTHER.

IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND, U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE: A U 1 SUCTION, A U 2 PRESSURE, A U 3 GRAVITY, A U 91 NONE, A U 95 UNKNOWN, A U 99 OTHER. B. CONSTRUCTION: A U 1 SINGLE WALLED, A U 2 DOUBLE WALLED, A U 3 LINED TRENCH, A U 91 NONE, A U 95 UNKNOWN, A U 99 OTHER. C. MATERIAL: A U 1 STEEL/IRON, A U 2 STAINLESS STEEL, A U 3 POLYVINYL CHLORIDE (PVC), A U 4 FIBERGLASS PIPE, A U 91 NONE, A U 5 ALUMINUM, A U 6 CONCRETE, A U 7 STEEL CLAD W/FRP, A U 8 100% METHANOL COMPATIBLE FRP, A U 9 GALVANIZED STEEL, A U 95 UNKNOWN, A U 99 OTHER.

V. LEAK DETECTION SYSTEM CIRCLE P FOR PRIMARY, OR S FOR SECONDARY, A PRIMARY LEAK DETECTION SYSTEM MUST BE CIRCLED.

P S 1 VISUAL CHECK, P S 2 INVENTORY RECONCILIATION, P S 3 VADOSE WELLS, P S 4 ELECTRONIC MONITOR, P S 5 GROUND WATER MONITORING WELLS, P S 6 PRECISION TESTING, P S 7 PRESSURE TESTING, P S 91 NONE, P S 95 UNKNOWN, P S 99 OTHER.

VI. INFORMATION ON TANK PERMANENTLY CLOSED IN PLACE

1. ESTIMATED DATE LAST USED (MO/YR), 2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING IN GALLONS, 3. WAS TANK FILLED WITH INERT MATERIAL? YES [] NO [X]

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

APPLICANT'S NAME (PRINTED & SIGNATURE)

DATE

LOCAL AGENCY USE ONLY

COUNTY # 10, JURISDICTION #, AGENCY #, FACILITY ID #, TANK ID #, CURRENT LOCAL AGENCY FACILITY ID # 90139, APPROVED BY NAME Laurelot Laital, PHONE # WITH AREA CODE (209) 445-3071, PERMIT NUMBER, PERMIT APPROVAL DATE, PERMIT EXPIRATION DATE, CHECK #, PERMIT AMOUNT, SURCHARGE AMT., FEE CODE, RECEIPT #, BY:



FORM 'A':
SITE

UNDERGROUND STORAGE TANK PROGRAM
FACILITY/SITE, INFORMATION and/or PERMIT APPLICATION
COMPLETE THIS FORM FOR EACH FACILITY/SITE

NO 19301

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input checked="" type="checkbox"/> 7 PERMANENTLY CLOSED SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY SITE CLOSURE	

I. FACILITY/SITE INFORMATION & ADDRESS — (MUST BE COMPLETED)

FACILITY/SITE NAME <i>USDA</i>		CARE OF ADDRESS INFORMATION <i>Cliff King</i>		
ADDRESS <i>2221 J. Beach</i>		NEAREST CROSS STREET	<input checked="" type="checkbox"/> Box to indicate <input type="checkbox"/> CORPORATION <input type="checkbox"/> INDIVIDUAL	<input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> LOCAL-AGENCY <input type="checkbox"/> COUNTY-AGENCY <input checked="" type="checkbox"/> STATE-AGENCY <input checked="" type="checkbox"/> FEDERAL-AGENCY
CITY NAME <i>Fresno</i>		STATE CA	ZIP CODE <i>93727</i>	SITE PHONE #, WITH AREA CODE <i>(609) 453-3007</i>
TYPE OF BUSINESS: <input type="checkbox"/> 1 GAS STATION	<input type="checkbox"/> 2 DISTRIBUTOR	<input type="checkbox"/> 4 PROCESSOR	<input checked="" type="checkbox"/> Box if INDIAN RESERVATION or TRUST LANDS	EPA ID #
<input checked="" type="checkbox"/> 3 FARM	<input type="checkbox"/> 5 OTHER			# of TANK's AT THIS SITE <i>0</i>
EMERGENCY CONTACT PERSON (PRIMARY)		EMERGENCY CONTACT PERSON (SECONDARY)		
DAYS: NAME (LAST, FIRST) <i>Cliff King</i>		PHONE # WITH AREA CODE <i>(609) 453-3007</i>		DAYS: NAME (LAST, FIRST) <i>Cliff King</i>
NIGHTS: NAME (LAST, FIRST) <i>same</i>		PHONE # WITH AREA CODE		NIGHTS: NAME (LAST, FIRST) <i>same</i>
PHONE # WITH AREA CODE		PHONE # WITH AREA CODE		

II. PROPERTY OWNER INFORMATION & ADDRESS — (MUST BE COMPLETED)

NAME <i>USDA</i>		CARE OF ADDRESS INFORMATION <i>Cliff King</i>		
MAILING or STREET ADDRESS <i>2221 J. Beach</i>		<input checked="" type="checkbox"/> Box to indicate <input type="checkbox"/> CORPORATION <input type="checkbox"/> INDIVIDUAL	<input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> LOCAL-AGENCY <input type="checkbox"/> COUNTY-AGENCY	<input type="checkbox"/> STATE-AGENCY <input checked="" type="checkbox"/> FEDERAL-AGENCY
CITY NAME <i>Fresno</i>		STATE CA	ZIP CODE <i>93727</i>	PHONE #, WITH AREA CODE <i>(609) 453-3007</i>

III. TANK OWNER INFORMATION & ADDRESS — (MUST BE COMPLETED)

NAME <i>same</i>		CARE OF ADDRESS INFORMATION		
MAILING or STREET ADDRESS		<input checked="" type="checkbox"/> Box to indicate <input type="checkbox"/> CORPORATION <input type="checkbox"/> INDIVIDUAL	<input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> LOCAL-AGENCY <input type="checkbox"/> COUNTY-AGENCY	<input type="checkbox"/> STATE-AGENCY <input type="checkbox"/> FEDERAL-AGENCY
CITY NAME		STATE	ZIP CODE	PHONE #, WITH AREA CODE

IV. LEGAL NOTIFICATION AND BILLING ADDRESS

CHECK ONE (1) BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR BOTH LEGAL NOTIFICATION AND BILLING: I. II. III.

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

APPLICANT'S NAME (PRINTED & SIGNATURE)	DATE
--	------

LOCAL AGENCY USE ONLY

COUNTY # <i>10</i>	JURISDICTION #	AGENCY #	FACILITY ID #	# of TANKS at SITE <i>0000</i>
CURRENT LOCAL AGENCY FACILITY ID # <i>90139</i>	APPROVED BY NAME <i>Samuel L. Lutz</i>	PHONE # WITH AREA CODE <i>(609) 453-3007</i>		
PERMIT NUMBER	PERMIT APPROVAL DATE	PERMIT EXPIRATION DATE		
LOCATION CODE	CENSUS TRACT #	SUPERVISOR-DISTRICT CODE	BUSINESS PLAN FILED YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE FILED
CHECK #	PERMIT AMOUNT	SURCHARGE AMOUNT	FEE CODE	RECEIPT #
				BY:

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE TANK PERMIT FORM 'B' APPLICATION(S), UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.
FORM A (3-2-88)

FRESNO COUNTY DEPARTMENT OF HEALTH
 ENVIRONMENTAL HEALTH SYSTEM
 P.O. BOX 11867, FRESNO, CA 93775
 TELEPHONE (209) 445-3271

ABANDONMENT INSPECTION REPORT

A. SITE INFORMATION:

Site Address USDA City Fresno Zip 93721
 Facility Name 2221 S. Peach APN _____
 Owner/Operator USDA Ag Research Phone 453-3007
 Mailing Address 2021 S. Peach Ave City Fresno Zip 93727

B. CONTRACTOR INFORMATION:

Company USDA Ag Res Contact Person Cliff King Phone 453-3007
 Mailing Address 2021 S. Peach City Fresno Zip 93727
 State Contractor License No. _____ Class _____

C. INSPECTION INFORMATION:

Abandon In Place _____ Removal

Tank #/Tank Size 1. 1623/550 2. 1 3. 1
 4. 1 5. 1 6. 1

	Y/N	Comments
Tank(s) has been completely emptied prior to removal	N	3-9-90
Tank(s) has been cleaned and waste manifested	X	3-9-90
Tank(s) properly purged / LEL below 5%	N	3-9-90
Piping removed	X	3-9-90
Backfill method approved for abandonment in place	NA	
Groundwater/Product in excavation (Circle One)	NA	

Soil discoloration - note location(s): None observed.

General tank condition (describe): Severely rusted & pitted.

CONTRACTOR CERTIFIES PROPER DECONTAMINATION OF TANKS HAS BEEN PERFORMED: NA

Additional Comments: The above tank was removed during excavation. No end, RNRIS of the existence of this tank. None of the normal procedures for tank removal could be followed. One sample taken.

<p><u>Plot Plan Legend</u></p> <p>⊗ Sample Location Depth of Sample(s): tanks <u>9'</u> piping <u>0</u></p> <p>Sample Analyses Required <u>DTX - 8020 (5020)</u> <u>TPH (a) 8015 H (2590)</u> <u>TPH (b) 8015 H</u> <u>219 418.1</u></p>	
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OFFICIAL USE ONLY

Site I.D. 20139 CT _____ Fee 153.00 Date 3-7-90

Lawrence S. Letic
 Analyst's Signature

Cliff King
 Owner/Operator Signature

FRESNO COUNTY DEPARTMENT OF HEALTH
 ENVIRONMENTAL HEALTH SYSTEM
 P.O. BOX 11867, FRESNO, CALIFORNIA 93721
 TELEPHONE (209) 445-3271
 PERMIT APPLICATION FOR UNDERGROUND STORAGE TANKS

- ABANDONMENT/REMOVAL NEW CONSTRUCTION SUBSURFACE ASSESSMENT/REMIEDIATIO
 ABANDONMENT/IN PLACE REPAIR OR REPLACE PRECISION TEST: DATE _____

SITE INFORMATION:

Site Address 2221 S Peach Av City FresNo Zip 93721
 Facility Name U.S.D.A. AG. RESEARCH SERVICE Cross Street E CALIFORNIA
 Owner/Operator _____ Phone _____
 Mailing Address 2021 S. PEACH AV City FRESNO Zip 93721

CONTRACTOR INFORMATION:

Company U.S.D.A AG RESEARCH SER
 Address 2021 S Peach
 City FresNo Phone 453-3007
 Contractor Lic. No./Class _____

CONSULTANT INFORMATION:

Company TWINING LABS
 Address FresNo
 City FresNo Phone _____
 Registration Lic. No/Type _____

TANK CLEANING/TRANSPORTER INFORMATION:

Company -tank to be cleaned & moved when
 Address a 2nd tank is removed at
 City _____ Phone 2021 S. Peach
 Waste Transporter ID No. _____
 Tank Destination _____
 Rinsate Manifested Tank Manifested

PRECISION TESTER INFORMATION:

Company _____
 Address _____
 City _____ Phone _____
 Type of Test _____
 Tester Name _____
 CA State Cert. No. _____

TANK INFORMATION

<u>PERMIT #</u>	<u>SIZE</u>	<u>PRODUCT</u>	<u>AGE OF TANK</u>	<u>PREVIOUSLY STORED MATERIAL</u>
<u>1623</u>	<u>500gal</u>	<u>Fuel Oil/Gas</u>	<u>UNKNOWN</u>	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

DESCRIBE WORK TO BE PERFORMED

(Use Reverse Side if Necessary)

OFFICIAL USE ONLY

Site I.D. 90139 CT _____ APN _____ Fee \$ 153⁰⁰ Application Date 3/8/90

NOTE: Permit expires ninety (90) days after the application date. The applicant has received, understands, and will comply with the attached conditions of this permit and any other State and local regulations.

EO Yamamoto
 Approved by:

Clifford C. King
 Applicant Name (Please Print)

Clifford C. King
 Applicant Signature/Title

STATE WATER RESOURCES CONTROL BOARD
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR FRESNO COUNTY

CONTAINER TYPES: 1, 2, 3, 4, 5

(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

I OWNER

MARTIN DEDEKIAN
2178 SOUTH WILLOW FRESNO CA 93725

II FACILITY

MAILING ADDRESS TOWNSHIP/RANGE/SECTION	DEALER/FOREMAN/SUPERVISOR TELEPHONE	TYPE OF BUSINESS NO. OF CONTAINERS
MARTIN DEDEKIAN 2178 SOUTH WILLOW FRESNO CA 93725	MARTIN DEDEKIAN (209) 255-2845	FARM
CROSS STREET :		

III 24-HR. CONTACT PERSON / TELEPHONE
DAY: DEDEKIAN, M.

(209) 255-2845 NIGHT: DEDEKIAN, M. (209) 255-2845

***** OWNER ASSIGNED CONTAINER NUMBER: 1 ***** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000056590001 *****

IV DESCRIPTION

A. CONTAINER TYPE : TANK	E. REPAIRS : NONE IF YES WHEN :
B. MANUFACTURER/YR OF MFG: /	F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
C. YEAR INSTALLED : UNK	G. STORES : PRODUCT
D. CAPACITY (GALLONS) : 550	H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: REGULAR

IS CONTAINER LOCATED ON A FARM : YES

V CONTAINER CONSTRUCTION

A. THICKNESS:	B. VAULTING: NON-VAULTED	C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL		
E. LINING : UNKNOWN		
F. WRAPPING : UNKNOWN		

VI PIPING

A. ABOVEGROUND PIPING :	B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:	

VII LEAK DETECTION

STOCK INVENTORY

VIII CHEMICAL COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER

12032 REGULAR MOTOR VEHICLE FUEL

STATE WATER RESOURCES CONTROL BOARD
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR FRESNO COUNTY

CONTAINER TYPES: 1 2 3 4 5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

I OWNER

USDA, ARS, FRUIT GENETICS & BR
2021 S. PEACH AVE. FRESNO CA 93727

II FACILITY

FRUIT GENETICS & BREEDING RESE 2021 S. PEACH AVE. FRESNO CA 93727	MAILING ADDRESS TOWNSHIP/RANGE/SECTION 2021 S. PEACH AVE. FRESNO CA 93727	DEALER/FOREMAN/SUPERVISOR TELEPHONE OWEN TANNER (209) 487-5334	TYPE OF BUSINESS NO. OF CONTAINERS GASOLINE STATION 1
CROSS STREET : BUTLER AVE.			

III 24-HR. CONTACT PERSON / TELEPHONE

DAY: TANNER, OWEN (209) 487-5334 NIGHT: TANNER, OWEN (209) 255-9547

***** OWNER ASSIGNED CONTAINER NUMBER: 1

***** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 0000059014001 *****

IV DESCRIPTION

A. CONTAINER TYPE : TANK	E. REPAIRS : NONE IF YES WHEN :
B. MANUFACTURER/YR OF MFG: /	F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
C. YEAR INSTALLED : UNK	G. STORES : PRODUCT
D. CAPACITY (GALLONS) : 500	H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: UNLEADED

IS CONTAINER LOCATED ON A FARM : YES

V CONTAINER CONSTRUCTION

A. THICKNESS:	B. VAULTING: NON-VAULTED	C. WALLING: UNKNOWN
D. MATERIAL : CARBON STEEL		
E. LINING : UNLINED		
F. WRAPPING : NONE		

VI PIPING

A. ABOVEGROUND PIPING : UNKNOWN	B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:	

VII LEAK DETECTION

NONE

VIII CHEMICAL COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER

12031 UNLEADED MOTOR VEHICLE FUEL

La

ISSUE ALERT

HAZARDOUS MATERIAL RELEASE
Immediate Notification of Board of Supervisors Required

DATE: 7/25/95 XX NEW INCIDENT
TIME: 2:00 p.m. UPDATE

ISSUE: SOIL CONTAMINATION FROM PETROLEUM PRODUCTS DUE TO UNDERGROUND STORAGE TANKS.

LOCATION: 2021 South Peach COMMUNITY: Fresno

NAME, ADDRESS, PHONE: USDA Agriculture Research, 800 Buchanan, Albany, CA 94710 Phone: (415) 559-6019.

HEALTH DEPT. PROGRAM: UNDERGROUND STORAGE TANK SECTION.

ISSUE DESCRIPTION: SUBSURFACE ANALYSIS REVEALED THE PRESENCE OF PETROLEUM CONSTITUENTS IN SOIL.

POTENTIAL RISKS AND HEALTH EFFECTS: BENZENE, A CONSTITUENT OF PETROLEUM PRODUCTS IS CURRENTLY ON THE LIST OF PROP. 65 CHEMICALS AS A KNOWN CARCINOGEN.

COMMUNITY AFFECTED: Fresno, CA

Date Index Case Diagnosed: N/A
Number of People Involved: N/A
Additional Information: N/A

TIME LINE: PRELIMINARY INVESTIGATION CONDUCTED AT THE ABOVE SITE SHOWED SOIL CONTAMINATION. FURTHER INVESTIGATION WILL BE REQUIRED.

PLANNED INTERVENTION AND DEPARTMENT ACTIVITIES: OUR OFFICE WILL REVIEW FUTURE SITE INVESTIGATIONS AND DIRECT FURTHER ASSESSMENT WORK IF NEEDED.

OTHER PERTINENT INFORMATION: SCOPE OF FUTURE SUBSURFACE INVESTIGATION MAY BE NECESSARY TO DETERMINE POTENTIAL GROUNDWATER IMPACTS.

OTHER DEPARTMENTS OR AGENCIES INVOLVED: THE REGIONAL WATER QUALITY CONTROL BOARD WILL BE ADVISED VIA STATUS REPORTS.

PUBLIC INFORMATION & INQUIRY:

Agency: Fresno County Community Health Dept. Phone: (209) 445-3271

PERSON REPORTING: David Van Dyne STAFF ASSIGNED: Jim Armstrong

PERSON INITIATING ALERT: Environmental Health System Director

DISTRIBUTION - PLEASE HAND DELIVER

<input checked="" type="checkbox"/> Director	<input checked="" type="checkbox"/> Director/Mental Health	<input checked="" type="checkbox"/> Others:
<input checked="" type="checkbox"/> Health Officer	<input checked="" type="checkbox"/> Asst. Dir./Support Services	_____
<input checked="" type="checkbox"/> Director/Comm. Health	<input checked="" type="checkbox"/> E.H. System Director	_____



HEALTH SERVICES AGENCY
COMMUNITY HEALTH DEPARTMENT
Environmental Health Application

P.O. Box 11800, Fresno, California 93775
1221 Fulton Mall - ☎ (209) 445-3357

PLEASE PRINT OR TYPE

Business Name _____

Inspection Site Address _____

Date of Business Commencement _____ Business Telephone _____

Billing Address _____

Business Owner _____

Owner Address _____

Telephone _____

The Applicant hereby agrees to abide by all applicable Federal, State, and Fresno County statutes, laws, regulations, and the Fresno County Charter Ordinances and to pay all applicable Fresno County Environmental Health Permit and Inspection Fees, and late penalties, if any, which apply to the Permit which is being applied for here. PENALTIES FOR LATE PAYMENT ARE ASSESSED AT 10% PER MONTH OR FRACTION THEREOF. Notify Environmental Health of any change in the type of business activity, name, billing address, or ownership by calling 445-3357. Failure to notify Environmental Health may result in late penalties, Permit denial or revocation, and business closure. PERMITS AND FEES ARE NOT TRANSFERABLE.

Owner / Authorized Representative _____ Title _____ Date _____
— DO NOT WRITE BELOW THIS LINE —

Record ID#	Prog Elem #	Fee/Activity Description	Billing Code	Fee
PR# 047351				

Penalty Calculation: _____
TOTAL AMOUNT DUE _____

RETURN TO: _____ Date Left: _____ ROUTE TO: Business Envision File

New Business Ownership Change Business Name Change Billing Address Change Other

Close(inactive) Close(delete) Closure Date _____ Site Correction/Change Activity Change

Comments _____

Business Name _____ Owner _____

Inspection Site _____ Census Tract # _____ City Code _____

Business ID # _____ Tank # _____ Permit Code _____ Designated Employee ID # _____

Application Approved By: _____ Employee ID# _____ Date _____

Business Office Use

Envision updated by _____ Date 7/27/95

Supervisor Review _____

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.		
REPORT DATE 07/13/95		CASE #		SIGNED: David Van Dyne DATE: 7-13-95		
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT DAVID VAN DYNE		PHONE (209) 445-3271		SIGNATURE David Van Dyne	
	REPRESENTING <input checked="" type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME FRESNO COUNTY ENVIRON. HEALTH SYSTEM			
ADDRESS 1221 FULTON MAIL FRESNO CALIF. 93721						
RESPONSIBLE PARTY	NAME USDA		CONTACT PERSON KING, CLIFFORD		PHONE 209-559-6019 209-453-3007	
	ADDRESS 2021 800 BUCHANAN, ALBANY CALIF. 94710					
SITE LOCATION	FACILITY NAME (IF APPLICABLE) USDA AGRICULTURE RESEARCH		OPERATOR KING, CLIFFORD		PHONE (209) 453-3007	
	ADDRESS 2021 S. PEACH, FRESNO, CALIF. 93711					
CROSS STREET BUTLER						
IMPLEMENTING AGENCIES	LOCAL AGENCY FRESNO COUNTY ENVIRON. HEALTH SYSTEM		AGENCY NAME		CONTACT PERSON JIM ARMSTRONG	
	REGIONAL BOARD WATER QUALITY CONTROL BOARD		CENTRAL VALLEY REGIONAL		PHONE (209) 445-5116	
SUBSTANCES INVOLVED	(1) NAME DIESEL				QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN	
	(2) <input type="checkbox"/> UNKNOWN					
DISCOVERY/ABATEMENT	DATE DISCOVERED 07/13/95		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input checked="" type="checkbox"/> TANK REMOVAL <input type="checkbox"/> OTHER			
	DATE DISCHARGE BEGAN UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input checked="" type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> OTHER			
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 05/15/95					
SOURCE/ CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER			
	CASE TYPE CHECK ONE ONLY <input checked="" type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)					
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input checked="" type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY					
	REMEDIAL ACTION CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> OTHER (OT)					
COMMENTS	FRESNO COUNTY COMMUNITY HEALTH DEPARTMENT HAS REQUIRED THE SITE RESPONSIBLE PARTY TO SECURE THE SERVICES OF AN APPROVED ENVIRONMENTAL ENGINEERING CONSULTING FIRM.					



**REPORT OF SOIL SAMPLING
AND CHEMICAL ANALYSES
UNDERGROUND STORAGE TANK REMOVAL
USDA AGRICULTURAL RESEARCH SERVICES
2021 SOUTH PEACH AVENUE
FRESNO, CALIFORNIA**

RECEIVED

JUL 18 1995

Environmental Health System
Fresno Co Community Health Dept.

Project No. 014-95132
June 12, 1995

Prepared for:
Kroeker, Inc.
527 West Browning Avenue
Fresno, California 93704-1803
(209) 439-0604

Prepared by:
Krazan & Associates, Inc.
215 West Dakota Avenue
Clovis, California 93612
(209) 348-2200

 **Krazan** & ASSOCIATES, INC.

GEOTECHNICAL ENGINEERING • ENVIRONMENTAL ENGINEERING
CONSTRUCTION TESTING AND INSPECTION

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Project No. 014-95132

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Certified Analytical Reports and Chain-of-Custody Record

June 12, 1995

Project No. 014-95132

**SOIL SAMPLING AND CHEMICAL ANALYSES
UNDERGROUND STORAGE TANK REMOVAL
USDA AGRICULTURAL RESEARCH SERVICES
2021 SOUTH PEACH AVENUE
FRESNO, CALIFORNIA**

1.0 INTRODUCTION

The following report summarizes the activities conducted during the removal of five underground fuel storage tanks (USTs) at 2021 South Peach Avenue in Fresno, California (subject site). The soil sampling and chemical analyses were performed at the request of Kroeker, Inc., the UST removal contractor.

2.0 SITE LOCATION AND DESCRIPTION

The subject site is located south of the intersection of Butler Avenue and Peach Avenue in Fresno, California (see Figure 1, the Site Vicinity Map). According to the United States Geological Survey 7.5 minute Malaga, California topographic quadrangle map, the subject site is located within the southwest one-quarter of Section 8, Township 14 South, Range 21 East, Mount Diablo Baseline and Meridian.

The site is a United States Department of Agriculture facility and is used for agricultural research purposes (see Figure 2, the Site Plan). Structures at the subject site include an office, brick buildings used for agricultural research purposes, greenhouses, and several sheds. The USTs, consisting of three 300-gallon tanks and two 130-gallon tanks, were used to store heating oil. The approximate locations of the USTs are shown on Figure 2, the Sample Location Map. Single family residences are located on properties to the north, south, east and west of the subject site.

3.0 GEOLOGIC AND HYDROGEOLOGIC SETTING

The topography of the site is relatively level. The project site is located within the San Joaquin Valley, which is situated between the Sierra Nevada and Coast Ranges of California. The San Joaquin Valley comprises the southern portion of the Great Central Valley.

Alluvial fans are the dominant geomorphic feature in the Fresno area. The project site lies within the lower portion of a compound alluvial fan of intermittent streams north of the Kings River, and is underlain by recent alluvial fan deposits. The alluvial fan deposits underlying Fresno form the groundwater aquifer. Groundwater flow has been historically to the southwest based upon review of maps titled "Groundwater Table, Lines of Equal Elevation" from the Fresno Irrigation District, and occurs at a depth of approximately 90 feet below ground surface.

4.0 PROCEDURES AND FINDINGS

Five metal heating-oil USTs were removed from the site on May 15, 1995. The top of each UST was exposed prior to removal. The top of each tank was situated approximately 2 feet below ground surface. The UST measurements were as follows: USTs #1 and #2, approximately 48 inches (length) by 28 inches (diameter); UST #3, approximately 73 inches (length) by 34 inches (diameter); UST #4, approximately 44 inches (length) by 43 inches (diameter), and; UST #5, approximately 60 inches (length) by 40 inches (diameter). All the USTs were reported to be in good condition with the exception of UST#4, which was reported to be in fair condition. Tanks #1 and #2 were situated side by side, adjacent to the southeast corner of Building 010. The UST removal operations were conducted under the direction of Mr. David VanDyne of the Fresno County Environmental Health Department (Fresno County EHD). The removal contractor was Kroeker, Inc., of Fresno, California, and Krazan & Associates was present to collect the soil samples. Each UST was rinsed, iced, and, prior to removal, passed a lower explosive limit (LEL) measurement performed by Kroeker, Inc. No soil discoloration was present in the soil beneath the USTs. However, petroleum hydrocarbon odors were noted in soil samples collected from beneath Tank #4 and Tank #5.

Under the direction of David VanDyne of the Fresno County EHD, one soil sample was collected from a depth of approximately 3 feet below the bottom of USTs #1 and #2 (removed from the same excavation), and one sample was collected from beneath each of the three 300-gallon USTs.

Approximately one-half bucketful of soil was collected from the base of each excavation (approximately three feet below the base of each UST). The soil samples were obtained by driving a tube, measuring 2 inches (diameter) by 6 inches (length) into soils near the teeth of the backhoe bucket. Because of the presence of hardpan soil in the excavation for Tank #5, the soil sample from this location was collected using a hand-sampling device, hand-driven directly into soils in the excavation. Each end of the tube was then covered with Teflon® film and tight fitting plastic caps that were secured with a non-adhesive tape. The samples were then labeled and placed in a cooler chest with synthetic ice to limit volatilization of any hydrocarbons. The temperature of the cooler chest was maintained between 0° - 4°C.

Four soil samples were submitted to Krazan Analytical Laboratory, a State-approved environmental laboratory, located in Clovis, California. Each sample was analyzed for the presence and concentration of total petroleum hydrocarbons as referenced to diesel (TPH-D) by DHS GC/FID, and total recoverable petroleum hydrocarbons (TRPH) according to EPA Method 418.1. The results of the chemical analyses are summarized in Table I. For further details concerning the results of the chemical analyses, please refer to the Certified Analytical Report and Chain of Custody Record included in Appendix A.

TABLE I
Concentration of Petroleum Constituents in Soil
Tank Removal Soil Sampling
2021 South Peach Avenue
Fresno, California
May 15, 1995 Sampling

(All concentrations are expressed in parts per million.)

Analyses	Sample S1 (Tanks #1 and #2)	Sample S2 (Tank #3)	Sample S3 (Tank #4)	Sample S4 (Tank #5)
TPH-D	ND(< 1.0)	4.2	120	25,000
TRPH	ND(< 15)	ND	ND	17,000
ND(< ##)	=	None Detected at the detection limit noted.		
TPH-D	=	Total Petroleum Hydrocarbons as referenced to Diesel.		
TRPH	=	Total Recoverable Petroleum Hydrocarbons		

Review of the analytical results summarized in Table I indicates detectable concentrations of petroleum constituents were present in the soil samples collected from beneath the following three of the four UST locations: 1) beneath the former UST located on the north side of building 011 (Tank #3); 2) beneath the former UST located on the south side of building 013 (Tank #4); and 3) beneath the former UST located near the northwest corner of building 010 (Tank #5). Based upon the results of the soil

samples obtained, further investigation of soils in the vicinity of Tanks #1,#2 and #3 does not appear warranted. However, further investigation and/or remediation of soils in the vicinity of Tanks #4 and #5 may be warranted. It is recommended that a copy of this report be submitted to the Fresno County EHD.

5.0 LIMITATIONS

The findings of this report were based upon the results of our field and laboratory investigations, coupled with the interpretation of subsurface conditions associated with the UST excavation. Therefore, the data are accurate only to the degree implied by review of the data obtained and by professional interpretation.

The excavation and sample locations were located in the field by review of available maps and by pacing or tape measurements from existing landmarks. Therefore, the excavation and soil sample locations should be considered accurate only to the degree implied by the methods used to locate them.

Chemical testing was done by a laboratory approved by the State of California Department of Health Services. The results of the chemical testing are accurate only to the degree of care of ensuring the testing accuracy and the representative nature of the soil samples obtained.

The findings presented herewith are based on professional interpretation using state of the art methods and equipment and a degree of conservatism deemed proper as of this report date. It is not warranted that such data cannot be superseded by future geotechnical, environmental, or technical developments.

If you have any questions or if we can be of further assistance, please do not hesitate to contact our office at (209) 348-2200.

Respectfully submitted,
KRAZAN & ASSOCIATES, INC.



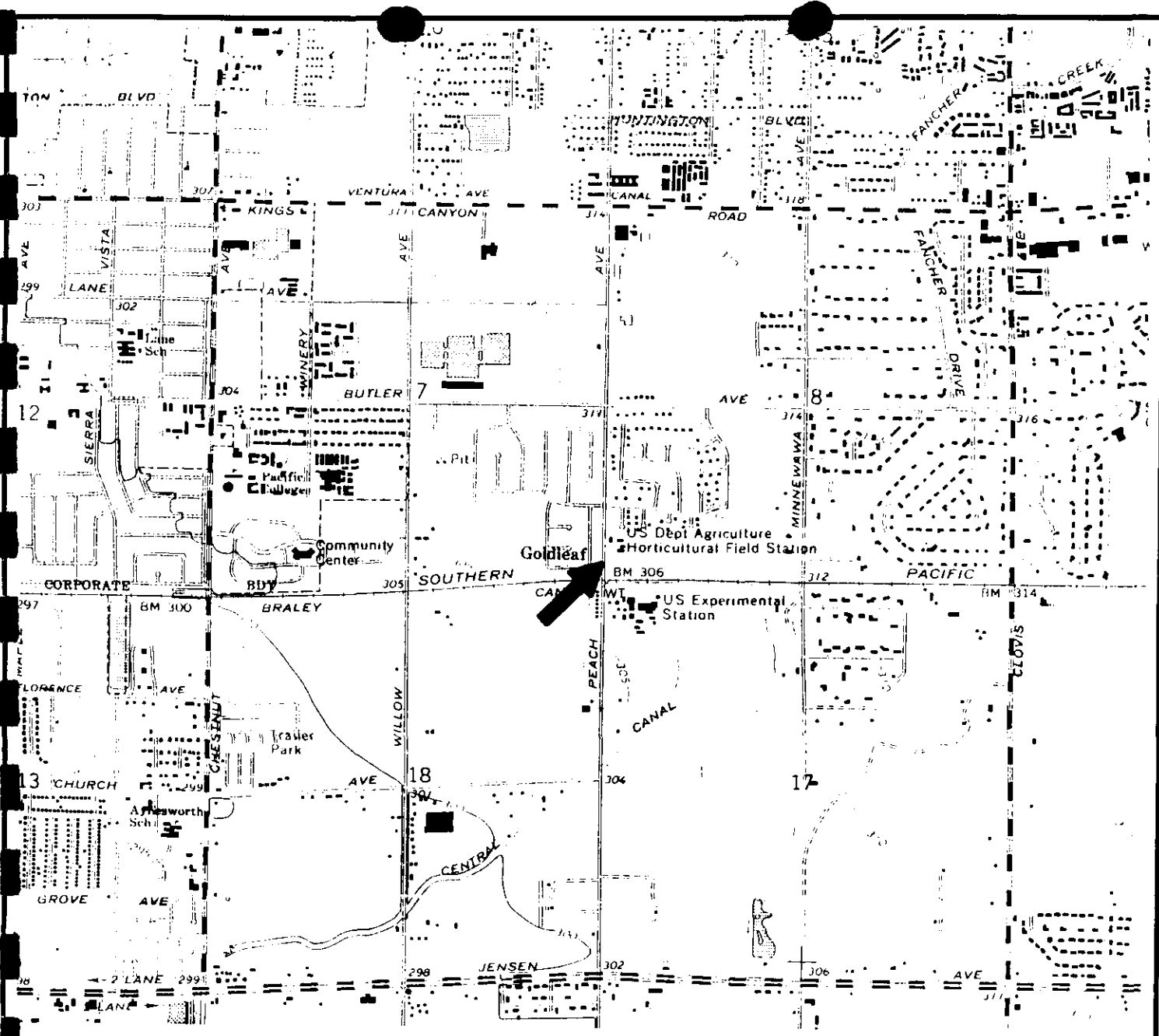
Nathan A. Stoopes
Project Geologist



Dean Alexander
Geotechnical Engineer
RGE #002051/RCE #34274

NAS/DA/cmc

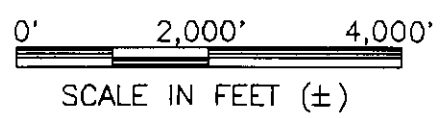
2c: herewith



VICINITY MAP

MAP SOURCE:

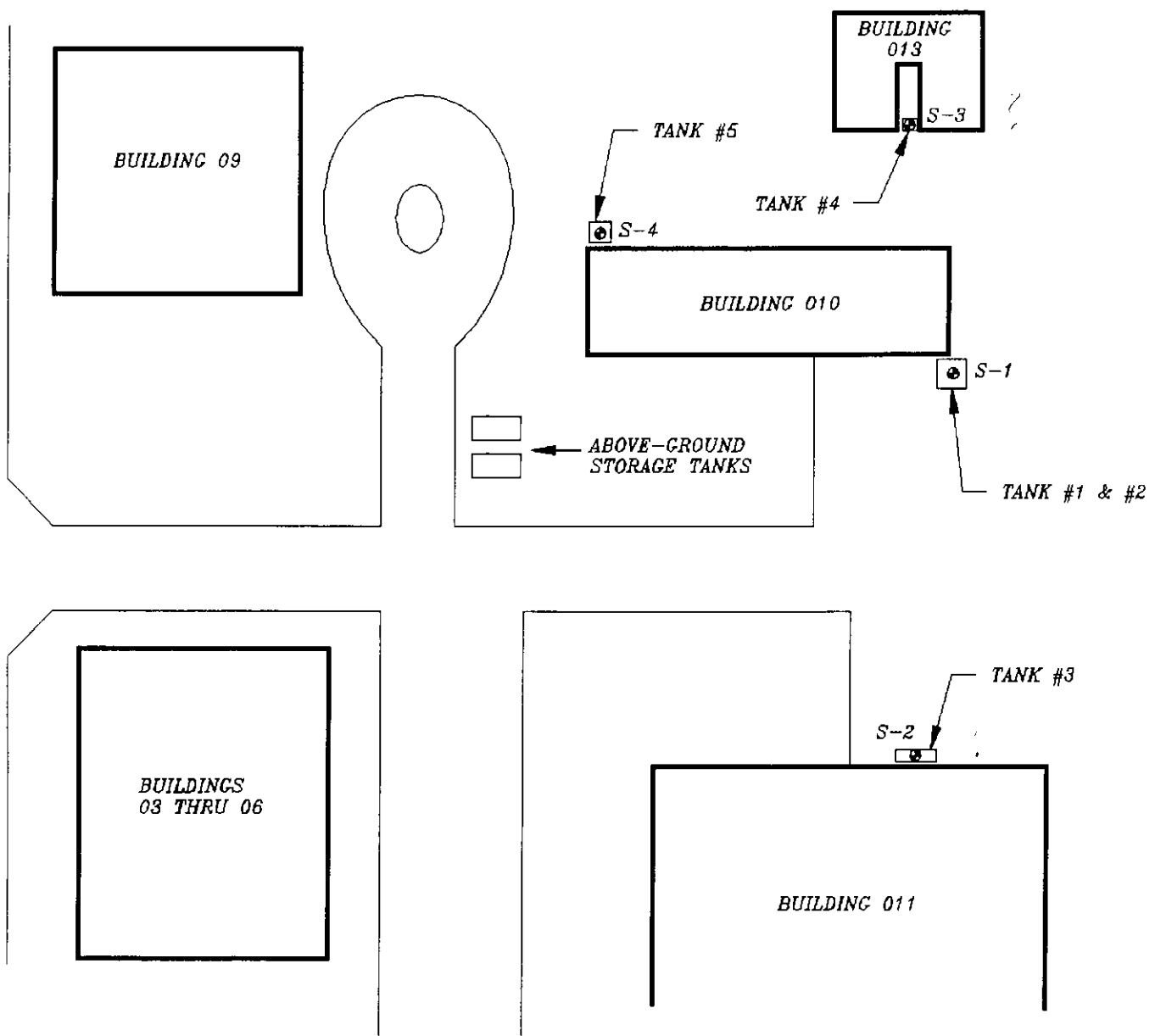
U.S.G.S. "MALAG, CA" QUADRANGLE
 7.5 MINUTE SERIES (TOPO) DATED: 1964,
 PHOTOREVISED: 1981.



← SITE LOCATION

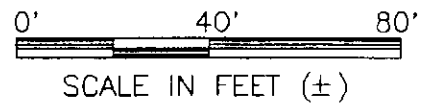
USDA AGRICULTURAL RESEARCH SERVICES FACILITY 2021 S. PEACH AVE. RESNO, CA	Scale: AS SHOWN	Date: 5-95	<p>Krazan ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SPECIALISTS <i>Offices Serving the Western United States</i></p>
	Drawn by: J.A.G.	Approved by: N.S.	
	Project No. 01495132	Figure No.	

S. PEACH AVE.



SAMPLE LOCATION MAP

● SAMPLE LOCATION



USDA AGRICULTURAL
 RESEARCH SERVICES FACILITY
 2021 S. PEACH AVE.
 FRESNO, CA

Scale: AS SHOWN	Date: 5-95
Drawn by: J.A.G.	Approved by: N.S.
Project No. 01495132	Figure No.

Krazan
 ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SPECIALISTS
 Offices Serving the Western United States

KRAZAN & ASSOCIATES, INC.
 ATTN: N. STOOPE
 215 WEST DAKOTA AVENUE
 CLOVIS, CA 93612
 (209) 348-2200 FAX: (209) 348-2201

Project No. 014-95132
 Sampler Signature Ronald E. Holcomb
 Printed Name RONALD E. HOLCOMB

PARAMETERS

CAC METALS (TLC,STIC)	PR. POLLUTANT METALS	TOTAL LEAD	TPH-DIESEL	TPH-GAS	BTXE-TPH-GAS	OIL & GREASE <u>418.1</u>	HALOGENATED ORGANICS (EPA 8010/8011)	VOLATILE ORGANICS (EPA 8010/802)	ORGANOCHLORINE PESTICIDES & PCB'S (EPA 8080)	PENTACHLOROPHENOL	CREOSOTE	DIOXINS/FURANS	ASBESTOS (PLM)
			X			X							
			X			X							
			X			X							
			X			X							

NUMBER OF CONTAINERS

OBSERVATIONS/COMMENTS

SAMPLE NO	DATE	TIME	DESCRIPTION/LOCATION
<u>51</u>	<u>5/15/95</u>	<u>1010</u>	<u>TANKS 1 & 2</u>
<u>52</u>	<u>↓</u>	<u>1023</u>	<u>TANK 3</u>
<u>53</u>	<u>↓</u>	<u>1040</u>	<u>TANK 4</u>
<u>54</u>	<u>↓</u>	<u>1100</u>	<u>TANK 5</u>

2" Ø x 6" BRAS
↓

RELINQUISHED BY <u>Ronald E. Holcomb</u> Signature <u>RONALD E. HOLCOMB</u> Printed Name <u>KRAZAN</u> Company	DATE <u>5/15/95</u> TIME <u>1500</u>	RECEIVED BY <u>Clarie J. Cone</u> Signature <u>Clarie J. Cone</u> Printed Name <u>Castle Analytical</u> Company	DATE <u>5/15/95</u> TIME <u>1500</u>	RELINQUISHED BY <u>[Signature]</u> Signature <u>[Name]</u> Printed Name <u>[Company]</u> Company	DATE <u>[Date]</u> TIME <u>[Time]</u>	RECEIVED BY <u>[Signature]</u> Signature <u>[Name]</u> Printed Name <u>[Company]</u> Company	DATE <u>[Date]</u> TIME <u>[Time]</u>
RELINQUISHED BY <u>[Signature]</u> Signature <u>[Name]</u> Printed Name <u>[Company]</u> Company	DATE <u>[Date]</u> TIME <u>[Time]</u>	RECEIVED BY <u>[Signature]</u> Signature <u>[Name]</u> Printed Name <u>[Company]</u> Company	DATE <u>[Date]</u> TIME <u>[Time]</u>	RELINQUISHED BY <u>[Signature]</u> Signature <u>[Name]</u> Printed Name <u>[Company]</u> Company	DATE <u>[Date]</u> TIME <u>[Time]</u>	RECEIVED BY (Laboratory) <u>[Signature]</u> Signature <u>[Name]</u> Printed Name <u>[Company]</u> Company	DATE <u>[Date]</u> TIME <u>[Time]</u>

4 TOTAL NUMBER OF CONTAINERS SUBMITTED TO THE LAB
 METHOD OF SHIPMENT/DELIVERY
HAND CARRY
 SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS
 RESULTS DUE: _____
 VERBAL WRITTEN

CASTLE ANALYTICAL LABORATORY

Environmental Testing Services

215 West Dakota Ave. - Clovis, CA. 93612 - (209) 292-0474

Krazan & Associates, Inc.
215 W. Dakota Avenue
Clovis, CA 93612
Attn: Nathan Stoores

Client Project ID: 014-95132
Reference Number: 464
Sample Description: Soil
Sample Prep/Analysis Method: LUFT
Lab Numbers: 464-1S, 2S, 3S, 4S

Sampled: 5-15-95
Received: 5-15-95
Extracted: 5-18-95
Analyzed: 5-19-95
Reported: 5-22-95

TOTAL PETROLEUM HYDROCARBONS -DIESEL RANGE

ANALYTE	REPORTING LIMIT (mg/kg)	SAMPLE ID	SAMPLE ID	SAMPLE ID	SAMPLE ID
		S1 (mg/kg)	S2 (mg/kg)	S3 (mg/kg)	S4 (mg/kg)
DIESEL RANGE HYDROCARBONS	1.0	ND	4.2	120	25,000

Report Limit Multiplication Factor: 1 1 10 1,000

Instrument ID: HP-GC1 HP-GC1 HP-GC1 HP-GC1

Practical Quantitation Limit = Reporting Limit x Report Limit Multiplication Factor
Analytes reported as ND were not detected or below the Practical Quantitation Limit

ANALYST: Clari J. Cone
Clari J. Cone

APPROVED BY: James C. Phillips
James C. Phillips
Environmental Lab Director

CASTLE ANALYTICAL LABORATORY

Environmental Testing Services

215 West Dakota Ave. - Clovis, CA. 93612 - (209) 292-0474

Krazan & Associates, Inc.
215 W. Dakota Avenue
Clovis, CA 93612
Attn: Nathan Stoores

Client Project ID: 014-95132
Reference Number: 464
Matrix: Soil
Analyst: James Phillips

Method: TPH-Diesel
Instrument ID: HP-GC1
Prepared: 5-18-95
Analyzed: 5-19-95
Reported: 5-22-95

QUALITY CONTROL DATA REPORT

ANALYTE TPH-Diesel

Spike Concentration: 5.00
Units: mg/kg
LCS Batch #: TPHD-5185
LCS % Recovery: 94.2%
Control Limits: 60-130 %
MS/MSD Batch #: TPHD-5185
MS % Recovery: 77.2%
MSD % Recovery: 75.8%
Relative % Difference: 1.6%

Please Note:

The LCS (Laboratory Check Sample) is a control sample of known, interferent free matrix that is fortified with representative analytes and analyzed using the same reagents, preparation and analytical methods employed for the samples. The LCS % recovery is used for validation of sample batch results. Due to matrix effects, the QC limits and recoveries for MS/MSD's are advisory only and are not used to accept or reject batch results.

ANALYST:

Clari J. Cone
Clari J. Cone

APPROVED BY:

James C. Phillips
James C. Phillips
Environmental Lab Director

CASTLE ANALYTICAL LABORATORY

Environmental Testing Services

215 West Dakota Ave. - Clovis, CA. 93612 - (209) 292-0474

Krazan & Associates, Inc.
215 W. Dakota Avenue
Clovis, CA 93612
Attn: Nathan Stoores

Client Project ID: 014-95132
Reference Number: 464
Sample Description: Soil
Sample Prep/Analysis Method: 418.1M
Lab Numbers: 464-1S, 2S, 3S, 4S

Sampled: 5-15-95
Received: 5-15-95
Extracted: 5-18-95
Analyzed: 5-18-95
Reported: 5-22-95

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

ANALYTE	REPORTING LIMIT (mg/kg)	SAMPLE ID	SAMPLE ID	SAMPLE ID	SAMPLE ID
		S1 (mg/kg)	S2 (mg/kg)	S3 (mg/kg)	S4 (mg/kg)
PETROLEUM HYDROCARBONS	15	ND	ND	ND	17,000
Report Limit Multiplication Factor:		1	1	1	100

Instrument ID:

IR-SPEC

IR-SPEC

IR-SPEC

IR-SPEC

Practical Quantitation Limit = Reporting Limit x Report Limit Multiplication Factor
Analytes reported as ND were not detected or below the Practical Quantitation Limit

ANALYST:

James C. Phillips

APPROVED BY:

James C. Phillips
Environmental Lab Director

CASTLE ANALYTICAL LABORATORY

Environmental Testing Services

215 West Dakota Ave. - Clovis, CA. 93612 - (209) 292-0474

Krazan & Associates, Inc.
215 W. Dakota Avenue
Clovis, CA 93612
Attn: Nathan Stoores

Client Project ID: 014-95132
Reference Number: 464
Matrix: Soil
Analyst: James Phillips

Method: 418.1M
Instrument ID: IR SPEC-1
Prepared: 5-18-95
Analyzed: 5-18-95
Reported: 5-22-95

QUALITY CONTROL DATA REPORT

ANALYTE PETROLEUM HYDROCARBONS

Spike Concentration: 50
Units: mg/kg
LCS Batch #: TRPH-5185
LCS % Recovery: 96%
Control Limits: 60-130 %

MS/MSD Batch #: TRPH-5155
MS % Recovery: 88%
MSD % Recovery: 106%
Relative % Difference: 19%


Please Note:

The LCS (Laboratory Check Sample) is a control sample of known, interferent free matrix that is fortified with representative analytes and analyzed using the same reagents, preparation and analytical methods employed for the samples. The LCS % recovery is used for validation of sample batch results. Due to matrix effects, the QC limits and recoveries for MS/MSD's are advisory only and are not used to accept or reject batch results.

ANALYST:


James C. Phillips

APPROVED BY:


James C. Phillips
Environmental Lab Director

GUIDELINES FOR INSPECTION OF PUBLIC RECORDS

All public records of the Fresno County Department of Health, Environmental Health System, which are subject to disclosure under the provisions of the California Public Records Act (Government Code Sections 6250 - 6260), are open to inspection by the public during normal office hours of the office at which those records are located. However, certain records are confidential, and the Department may not release these records to the public. They include all complaint files, inter-office memos, all material in "Confidential" air pollution folders, personnel records, well logs, field notes and preliminary drafts for use by the Department.

Any person who wishes to inspect a public record may present his request to the clerk on duty where the public record is located. A particular record, or if not known, the particular type or class of records, may be requested.

No record may be removed from the office unless subpoenaed. Copies can be made at a charge of 10¢ for each original copy for copies 1 - 8. A charge of .05¢ per copy will be made on copies of 9 or more. The requestor may reproduce a copy by his own means, subject to the limitations that no record is removed from the office and that the record is not damaged by the reproduction equipment.

The Department may temporarily deny or restrict inspection of public records under the following circumstances:

1. Records are at the particular time required by staff or other officials in performing their duties.
2. Supervision of inspection is at that particular moment not possible.
3. Other members of the public are waiting to inspect those records.

REQUEST TO INSPECT PUBLIC RECORDS

Signature	Representing	Date
	95173 Krazen	6/16/95

I have read the Department's guidelines and wish to inspect the following public record.

Complete Description:

USDA Ag Research UGST
 2021 S. Peach

To be completed by Departmental Office:

<input checked="" type="checkbox"/> Approved <input checked="" type="checkbox"/> Inspected <u>JHA</u>	<input type="checkbox"/> Disclosure of requested record is prohibited _____
--	---

Departmental Representative

Date

JHA 6/28/95

UNDERGROUND STORAGE TANK ABANDONMENT INSPECTION REPORT

FRESNO COUNTY DEPARTMENT OF HEALTH-ENVIRONMENTAL HEALTH SYSTEM

Post Office Box 11867, Fresno, California 93775

1221 Fulton Mall--(209)445-3271

PR

Site Information		Date <u>MAY 15, 1995</u>	
Facility <u>US DA. RESEARCH CENTER</u>	Site I.D. <u>---</u>	PR# <u>032-720</u>	
Address <u>2021 S. PEACH</u>	City <u>FRESNO</u>	Zip <u>93727</u>	

Tank Information	Abandonment in place <input type="checkbox"/> Removal <input checked="" type="checkbox"/>
Tank#/size: 1. <u>3149/255</u> ^{SS} 23750/200 <u>23750/200</u> 3. <u>3151/300</u> 4. <u>3752/300</u> 5. <u>3833/500</u> 6. <u>1</u>	

Inspection Information	Y/N	Inspection Information	Y/N
Tank(s) completely emptied <u>DIS</u>	Y	Groundwater/Product in excavation(circle one)	N
Tank(s) cleaned and waste manifested <u>DIS, 45223514</u>	Y	Approved abandonment in place	N
Tank(s) properly purged/LEL below 5% <u>0% ON ALL</u>	Y	A & B forms completed and submitted <u>5/18/94</u>	Y
All piping removed	Y	Samples taken by: <u>RON HOLFOMB - CASTLE A&S</u>	

Soil discoloration and its location(s): S₃ - ODOR OF HYDROCARBONS NO DISCOLORATION

S_{1,2,3,4} - NONE NOTE

Tank condition(describe): T₁, T₂ - SS GALVAN DRUMS HEAVY RUSTING T₃ - HEAVY RUSTING

T₃ T₄ - 300 gal HEAVY RUSTING

Notes:

<p>Plot Key</p> <p>X = Sample location</p> <p>T_n = Tank number</p> <p>S_y = Sample number</p> <p>D' = Depth below grade(ft)</p> <p>Note the depth of sample. eg. : S_yD'</p>	<p>Plot Plan(not to scale)</p>
<p>Analysis/Sample numbers</p> <p>TPH Gas & BTXE/</p> <p>TPH Diesel/ <u>S₁-S₄</u></p> <p>EPA 418.1/ <u>S₁-S₄</u></p> <p>Other:</p>	
<p>Note: TPH by DHS-GC/FID(LUFT), BTXE by 8020</p>	

Analyst's Signature

 Owner/Representative's Signature, Title

CONTRACTOR CERTIFIES PROPER DECONTAMINATION OF TANKS:

RECEIVED

MAY 17 1995

STATE OF CALIFORNIA

STATE WATER RESOURCES CONTROL BOARD

UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM A



Environmental Health System
Fresno Co Community Health Dept.

COMPLETE THIS FORM FOR EACH FACILITY/SITE

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input checked="" type="checkbox"/> 7 PERMANENTLY CLOSED SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY SITE CLOSURE	

I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMPLETED)

DBA OR FACILITY NAME US DEPT OF AGRICULTURE		NAME OF OPERATOR US DEPT OF AGRICULTURE		
ADDRESS 2021 SO. PEACH		NEAREST CROSS STREET BUTLER	PARCEL # (OPTIONAL)	
CITY NAME FRESNO		STATE CA	ZIP CODE 93727	SITE PHONE # WITH AREA CODE 209-453-3007
<input checked="" type="checkbox"/> BOX TO INDICATE <input type="checkbox"/> CORPORATION <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> LOCAL AGENCY DISTRICTS* <input type="checkbox"/> COUNTY AGENCY* <input type="checkbox"/> STATE AGENCY* <input checked="" type="checkbox"/> FEDERAL AGENCY*				
* If owner of UST is a public agency, complete the following: name of Supervisor of division, section, or office which operates the UST				
TYPE OF BUSINESS		<input type="checkbox"/> IF INDIAN RESERVATION OR TRUST LANDS		# OF TANKS AT SITE
<input type="checkbox"/> 1 GAS STATION <input type="checkbox"/> 2 DISTRIBUTOR <input type="checkbox"/> 3 FARM <input type="checkbox"/> 4 PROCESSOR <input checked="" type="checkbox"/> 5 OTHER				4
		E. P. A. I. D. # (optional)		CA7120090397

EMERGENCY CONTACT PERSON (PRIMARY)

EMERGENCY CONTACT PERSON (SECONDARY) - optional

DAYS: NAME (LAST, FIRST) KLING Clifford	PHONE # WITH AREA CODE 209-453-3007	DAYS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE
NIGHTS: NAME (LAST, FIRST) KLING Clifford	PHONE # WITH AREA CODE 209-453-3007	NIGHTS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

NAME US DEPT OF AGRICULTURE		CARE OF ADDRESS INFORMATION Clifford Kling		
MAILING OR STREET ADDRESS 2021 SO PEACH		<input checked="" type="checkbox"/> box to indicate <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> STATE AGENCY <input type="checkbox"/> CORPORATION <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> COUNTY AGENCY <input checked="" type="checkbox"/> FEDERAL AGENCY		
CITY NAME FRESNO		STATE CA	ZIP CODE 93727	PHONE # WITH AREA CODE 209-453-3007

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

NAME OF OWNER US DEPT OF AGRICULTURE		CARE OF ADDRESS INFORMATION Clifford Kling		
MAILING OR STREET ADDRESS 2021 SO PEACH		<input checked="" type="checkbox"/> box to indicate <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> STATE AGENCY <input type="checkbox"/> CORPORATION <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> COUNTY AGENCY <input checked="" type="checkbox"/> FEDERAL AGENCY		
CITY NAME FRESNO		STATE CA	ZIP CODE 93727	PHONE # WITH AREA CODE 209-453-3007

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Call (916) 322-9669 if questions arise.

TY (TK) HQ **44-** [] [] [] [] [] [] [] [] [] []

V. PETROLEUM UST FINANCIAL RESPONSIBILITY - (MUST BE COMPLETED) - IDENTIFY THE METHOD(S) USED

<input checked="" type="checkbox"/> box to indicate	<input type="checkbox"/> 1 SELF-INSURED	<input type="checkbox"/> 2 GUARANTEE	<input checked="" type="checkbox"/> 3 INSURANCE	<input type="checkbox"/> 4 SURETY BOND
	<input type="checkbox"/> 5 LETTER OF CREDIT	<input type="checkbox"/> 6 EXEMPTION	<input type="checkbox"/> 99 OTHER	

VI. LEGAL NOTIFICATION AND BILLING ADDRESS Legal notification and billing will be sent to the tank owner unless box I or II is checked.

CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOTIFICATIONS AND BILLING: I. II. III.

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

OWNER'S NAME (PRINTED & SIGNED) Steve Balthasar	OWNER'S TITLE PROJECT MANAGER	DATE MONTH/DAY/YEAR 5-1-95
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LOCAL AGENCY USE ONLY

COUNTY # [] []	JURISDICTION # [] [] []	FACILITY # [] [] [] [] [] []
LOCATION CODE - OPTIONAL	CENSUS TRACT # - OPTIONAL	SUPVISOR - DISTRICT CODE - OPTIONAL

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE PERMIT APPLICATION - FORM B, UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.

OWNER MUST FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

RECEIVED

MAY 17 1995

STATE OF CALIFORNIA STATE WATER RESOURCES CONTROL BOARD UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



Environmental Health System
Fresno Co Community Health Dept.

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input checked="" type="checkbox"/> 7 PERMANENTLY CLOSED ON SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input type="checkbox"/> 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: USDA 2081 PEACH FRESNO CA 93727

I. TANK DESCRIPTION COMPLETE ALL ITEMS -- SPECIFY IF UNKNOWN

A. OWNER'S TANK I.D. # <u>UNK</u>	B. MANUFACTURED BY: <u>UNK</u>
C. DATE INSTALLED (MO/DAY/YEAR) <u>UNK</u>	D. TANK CAPACITY IN GALLONS: <u>150</u>

II. TANK CONTENTS IF A-1 IS MARKED, COMPLETE ITEM C.

A. <input type="checkbox"/> 1 MOTOR VEHICLE FUEL	<input type="checkbox"/> 4 OIL	B. <input type="checkbox"/> 1 PRODUCT	C. <input type="checkbox"/> 1a REGULAR UNLEADED	<input checked="" type="checkbox"/> 3 DIESEL	<input type="checkbox"/> 6 AVIATION GAS
<input type="checkbox"/> 2 PETROLEUM	<input type="checkbox"/> 80 EMPTY	<input type="checkbox"/> 2 WASTE	<input type="checkbox"/> 1b PREMIUM UNLEADED	<input type="checkbox"/> 4 GASAHOL	<input type="checkbox"/> 7 METHANOL
<input type="checkbox"/> 3 CHEMICAL PRODUCT	<input type="checkbox"/> 95 UNKNOWN		<input type="checkbox"/> 2 LEADED	<input type="checkbox"/> 5 JET FUEL	<input type="checkbox"/> 99 OTHER (DESCRIBE IN ITEM D. BELOW)
D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED				C. A. S. #:	

III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E

A. TYPE OF SYSTEM	<input type="checkbox"/> 1 DOUBLE WALL	<input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER	<input type="checkbox"/> 95 UNKNOWN
	<input checked="" type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 4 SECONDARY CONTAINMENT (VAULTED TANK)	<input type="checkbox"/> 99 OTHER
B. TANK MATERIAL (Primary Tank)	<input checked="" type="checkbox"/> 1 BARE STEEL	<input type="checkbox"/> 2 STAINLESS STEEL	<input type="checkbox"/> 3 FIBERGLASS
	<input type="checkbox"/> 5 CONCRETE	<input type="checkbox"/> 6 POLYVINYL CHLORIDE	<input type="checkbox"/> 7 ALUMINUM
	<input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 10 GALVANIZED STEEL	<input type="checkbox"/> 95 UNKNOWN
C. INTERIOR LINING	<input type="checkbox"/> 1 RUBBER LINED	<input type="checkbox"/> 2 ALKYD LINING	<input type="checkbox"/> 3 EPOXY LINING
	<input type="checkbox"/> 5 GLASS LINING	<input type="checkbox"/> 6 UNLINED	<input checked="" type="checkbox"/> 95 UNKNOWN
	IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___		<input type="checkbox"/> 4 PHENOLIC LINING
D. CORROSION PROTECTION	<input type="checkbox"/> 1 POLYETHYLENE WRAP	<input type="checkbox"/> 2 COATING	<input type="checkbox"/> 3 VINYL WRAP
	<input type="checkbox"/> 5 CATHODIC PROTECTION	<input type="checkbox"/> 91 NONE	<input checked="" type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC
E. SPILL AND OVERFILL	SPILL CONTAINMENT INSTALLED (YEAR) <u>UNK</u>		OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) <u>UNK</u>

IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE	A <input checked="" type="radio"/> 1 SUCTION	A U <input type="radio"/> 2 PRESSURE	A U <input type="radio"/> 3 GRAVITY	A U <input type="radio"/> 99 OTHER
B. CONSTRUCTION	A <input checked="" type="radio"/> 1 SINGLE WALL	A U <input type="radio"/> 2 DOUBLE WALL	A U <input type="radio"/> 3 LINED TRENCH	A U <input type="radio"/> 95 UNKNOWN
				A U <input type="radio"/> 99 OTHER
C. MATERIAL AND CORROSION PROTECTION	A <input checked="" type="radio"/> 1 BARE STEEL	A U <input type="radio"/> 2 STAINLESS STEEL	A U <input type="radio"/> 3 POLYVINYL CHLORIDE (PVC)	A U <input type="radio"/> 4 FIBERGLASS PIPE
	A U <input type="radio"/> 5 ALUMINUM	A U <input type="radio"/> 6 CONCRETE	A U <input type="radio"/> 7 STEEL W/ COATING	A U <input type="radio"/> 8 100% METHANOL COMPATIBLE W/FRP
	A U <input type="radio"/> 9 GALVANIZED STEEL	A U <input type="radio"/> 10 CATHODIC PROTECTION	A U <input type="radio"/> 95 UNKNOWN	A U <input type="radio"/> 99 OTHER
D. LEAK DETECTION	<input type="checkbox"/> 1 AUTOMATIC LINE LEAK DETECTOR	<input type="checkbox"/> 2 LINE TIGHTNESS TESTING	<input type="checkbox"/> 3 INTERSTITIAL MONITORING	<input checked="" type="checkbox"/> 99 OTHER <u>UNK</u>

V. TANK LEAK DETECTION

<input type="checkbox"/> 1 VISUAL CHECK	<input type="checkbox"/> 2 INVENTORY RECONCILIATION	<input type="checkbox"/> 3 VADOZE MONITORING	<input type="checkbox"/> 4 AUTOMATIC TANK GAUGING	<input type="checkbox"/> 5 GROUND WATER MONITORING
<input type="checkbox"/> 6 TANK TESTING	<input type="checkbox"/> 7 INTERSTITIAL MONITORING	<input type="checkbox"/> 91 NDNE	<input checked="" type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER

VI. TANK CLOSURE INFORMATION

1. ESTIMATED DATE LAST USED (MO/DAY/YR) <u>UNK</u>	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING <u>5600</u> GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
---	---	---

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) <u>STEVE DEATHRITAGS</u>	DATE <u>5-12-95</u>
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LOCAL AGENCY USE ONLY THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
PERMIT NUMBER	PERMIT APPROVED BY/DATE	PERMIT EXPIRATION DATE		

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED.
FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

RECEIVED

MAY 17 1995

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



Environmental Health System
Fresno Co Community Health Dept.

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input checked="" type="checkbox"/> 7 PERMANENTLY CLOSED ON SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input type="checkbox"/> 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: US DA 3081 PEACH FRESNO CA 93707

I. TANK DESCRIPTION

A. OWNER'S TANK I.D.# <u>UNK</u>	B. MANUFACTURED BY: <u>UNK</u>
C. DATE INSTALLED (MO/DAY/YEAR) <u>UNK</u>	D. TANK CAPACITY IN GALLONS: <u>150</u>

II. TANK CONTENTS

A. <input type="checkbox"/> 1 MOTOR VEHICLE FUEL	<input type="checkbox"/> 4 OIL	B. <input type="checkbox"/> 1 PRODUCT	C. <input type="checkbox"/> 1a REGULAR UNLEADED	<input checked="" type="checkbox"/> 3 DIESEL	<input type="checkbox"/> 6 AVIATION GAS
<input type="checkbox"/> 2 PETROLEUM	<input type="checkbox"/> 80 EMPTY	<input type="checkbox"/> 2 WASTE	<input type="checkbox"/> 1b PREMIUM UNLEADED	<input type="checkbox"/> 4 GASAHOL	<input type="checkbox"/> 7 METHANOL
<input type="checkbox"/> 3 CHEMICAL PRODUCT	<input type="checkbox"/> 95 UNKNOWN		<input type="checkbox"/> 2 LEADED	<input type="checkbox"/> 5 JET FUEL	<input type="checkbox"/> 99 OTHER (DESCRIBE IN ITEM D. BELDW)
D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED					C. A. S. #:

III. TANK CONSTRUCTION

A. TYPE OF SYSTEM	<input type="checkbox"/> 1 DOUBLE WALL	<input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER	<input type="checkbox"/> 95 UNKNOWN
	<input checked="" type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 4 SECONDARY CONTAINMENT (VAULTED TANK)	<input type="checkbox"/> 99 OTHER
B. TANK MATERIAL (Primary Tank)	<input checked="" type="checkbox"/> 1 BARE STEEL	<input type="checkbox"/> 2 STAINLESS STEEL	<input type="checkbox"/> 3 FIBERGLASS
	<input type="checkbox"/> 5 CONCRETE	<input type="checkbox"/> 6 POLYVINYL CHLORIDE	<input type="checkbox"/> 7 ALUMINUM
	<input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 10 GALVANIZED STEEL	<input type="checkbox"/> 95 UNKNOWN
C. INTERIOR LINING	<input type="checkbox"/> 1 RUBBER LINED	<input type="checkbox"/> 2 ALKYD LINING	<input type="checkbox"/> 3 EPOXY LINING
	<input type="checkbox"/> 5 GLASS LINING	<input type="checkbox"/> 6 UNLINED	<input checked="" type="checkbox"/> 95 UNKNOWN
	IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___		<input type="checkbox"/> 4 PHENOLIC LINING
D. CORROSION PROTECTION	<input type="checkbox"/> 1 POLYETHYLENE WRAP	<input type="checkbox"/> 2 COATING	<input type="checkbox"/> 3 VINYL WRAP
	<input type="checkbox"/> 5 CATHODIC PROTECTION	<input type="checkbox"/> 91 NONE	<input checked="" type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC
E. SPILL AND OVERFILL	SPILL CONTAINMENT INSTALLED (YEAR) <u>UNK</u>		OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) <u>UNK</u>

IV. PIPING INFORMATION

A. SYSTEM TYPE	<input checked="" type="radio"/> A <input type="radio"/> U 1 SUCTION	<input type="radio"/> A <input type="radio"/> U 2 PRESSURE	<input type="radio"/> A <input type="radio"/> U 3 GRAVITY	<input type="radio"/> A <input type="radio"/> U 99 OTHER
B. CONSTRUCTION	<input checked="" type="radio"/> A <input type="radio"/> U 1 SINGLE WALL	<input type="radio"/> A <input type="radio"/> U 2 DOUBLE WALL	<input type="radio"/> A <input type="radio"/> U 3 LINED TRENCH	<input type="radio"/> A <input type="radio"/> U 95 UNKNOWN
				<input type="radio"/> A <input type="radio"/> U 99 OTHER
C. MATERIAL AND CORROSION PROTECTION	<input checked="" type="radio"/> A <input type="radio"/> U 1 BARE STEEL	<input type="radio"/> A <input type="radio"/> U 2 STAINLESS STEEL	<input type="radio"/> A <input type="radio"/> U 3 POLYVINYL CHLORIDE (PVC)	<input type="radio"/> A <input type="radio"/> U 4 FIBERGLASS PIPE
	<input type="radio"/> A <input type="radio"/> U 5 ALUMINUM	<input type="radio"/> A <input type="radio"/> U 6 CONCRETE	<input type="radio"/> A <input type="radio"/> U 7 STEEL W/ COATING	<input type="radio"/> A <input type="radio"/> U 8 100% METHANOL COMPATIBLE W/FRP
	<input type="radio"/> A <input type="radio"/> U 9 GALVANIZED STEEL	<input type="radio"/> A <input type="radio"/> U 10 CATHODIC PROTECTION	<input type="radio"/> A <input type="radio"/> U 95 UNKNOWN	<input type="radio"/> A <input type="radio"/> U 99 OTHER
D. LEAK DETECTION	<input type="checkbox"/> 1 AUTOMATIC LINE LEAK DETECTOR	<input type="checkbox"/> 2 LINE TIGHTNESS TESTING	<input type="checkbox"/> 3 INTERSTITIAL MONITORING	<input checked="" type="checkbox"/> 99 OTHER <u>UNK</u>

V. TANK LEAK DETECTION

<input type="checkbox"/> 1 VISUAL CHECK	<input type="checkbox"/> 2 INVENTORY RECONCILIATION	<input type="checkbox"/> 3 VADOZE MONITORING	<input type="checkbox"/> 4 AUTOMATIC TANK GAUGING	<input type="checkbox"/> 5 GROUND WATER MONITORING
<input type="checkbox"/> 6 TANK TESTING	<input type="checkbox"/> 7 INTERSTITIAL MONITORING	<input type="checkbox"/> 91 NONE	<input checked="" type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER

VI. TANK CLOSURE INFORMATION

1. ESTIMATED DATE LAST USED (MO/DAY/YR) <u>UNK</u>	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING <u>5</u> GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
---	--	---

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) <u>STEVE DEATHWAYS</u>	DATE <u>5-12-95</u>
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LOCAL AGENCY USE ONLY

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
PERMIT NUMBER	PERMIT APPROVED BY/DATE	PERMIT EXPIRATION DATE		

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED.
FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

RECEIVED

MAY 17 1995

STATE OF CALIFORNIA STATE WATER RESOURCES CONTROL BOARD UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



Environmental Health System
Fresno Co Community Health Dept.

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input checked="" type="checkbox"/> 7 PERMANENTLY CLOSED ON SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input type="checkbox"/> 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: USDA 2081 PEACH FRESNO 93707

I. TANK DESCRIPTION

A. OWNER'S TANK I.D.# <u>UNK</u>	B. MANUFACTURED BY: <u>UNK 300</u>
C. DATE INSTALLED (MO/DAY/YEAR) <u>UNK</u>	D. TANK CAPACITY IN GALLONS:

II. TANK CONTENTS

IF A-1 IS MARKED, COMPLETE ITEM C.

A. <input type="checkbox"/> 1 MOTOR VEHICLE FUEL	<input type="checkbox"/> 4 OIL	B. <input type="checkbox"/> 1 PRODUCT	C. <input type="checkbox"/> 1a REGULAR UNLEADED	<input checked="" type="checkbox"/> 3 DIESEL	<input type="checkbox"/> 6 AVIATION GAS
<input type="checkbox"/> 2 PETROLEUM	<input type="checkbox"/> 80 EMPTY	<input type="checkbox"/> 2 WASTE	<input type="checkbox"/> 1b PREMIUM UNLEADED	<input type="checkbox"/> 4 GASAHOL	<input type="checkbox"/> 7 METHANOL
<input type="checkbox"/> 3 CHEMICAL PRODUCT	<input type="checkbox"/> 95 UNKNOWN		<input type="checkbox"/> 2 LEADED	<input type="checkbox"/> 5 JET FUEL	<input type="checkbox"/> 99 OTHER (DESCRIBE IN ITEM D. BELOW)

D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED: _____ C. A. S. # : _____

III. TANK CONSTRUCTION

MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E

A. TYPE OF SYSTEM	<input type="checkbox"/> 1 DOUBLE WALL	<input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER	<input type="checkbox"/> 95 UNKNOWN
	<input checked="" type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 4 SECONDARY CONTAINMENT (VAULTED TANK)	<input type="checkbox"/> 99 OTHER
B. TANK MATERIAL (Primary Tank)	<input checked="" type="checkbox"/> 1 BARE STEEL	<input type="checkbox"/> 2 STAINLESS STEEL	<input type="checkbox"/> 3 FIBERGLASS
	<input type="checkbox"/> 5 CONCRETE	<input type="checkbox"/> 6 POLYVINYL CHLORIDE	<input type="checkbox"/> 7 ALUMINUM
	<input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 10 GALVANIZED STEEL	<input type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 99 OTHER
C. INTERIOR LINING	<input type="checkbox"/> 1 RUBBER LINED	<input type="checkbox"/> 2 ALKYD LINING	<input type="checkbox"/> 3 EPOXY LINING
	<input type="checkbox"/> 5 GLASS LINING	<input type="checkbox"/> 6 UNLINED	<input checked="" type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 4 PHENOLIC LINING
			<input type="checkbox"/> 99 OTHER
	IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___		
D. CORROSION PROTECTION	<input type="checkbox"/> 1 POLYETHYLENE WRAP	<input type="checkbox"/> 2 COATING	<input type="checkbox"/> 3 VINYL WRAP
	<input type="checkbox"/> 5 CATHODIC PROTECTION	<input type="checkbox"/> 91 NONE	<input checked="" type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC
			<input type="checkbox"/> 99 OTHER
E. SPILL AND OVERFILL	SPILL CONTAINMENT INSTALLED (YEAR) <u>UNK</u>		OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) <u>UNK</u>

IV. PIPING INFORMATION

CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE	A <u>U</u> 1 SUCTION	A <u>U</u> 2 PRESSURE	A <u>U</u> 3 GRAVITY	A <u>U</u> 99 OTHER
B. CONSTRUCTION	A <u>U</u> 1 SINGLE WALL	A <u>U</u> 2 DOUBLE WALL	A <u>U</u> 3 LINED TRENCH	A <u>U</u> 95 UNKNOWN
				A <u>U</u> 99 OTHER
C. MATERIAL AND CORROSION PROTECTION	A <u>U</u> 1 BARE STEEL	A <u>U</u> 2 STAINLESS STEEL	A <u>U</u> 3 POLYVINYL CHLORIDE (PVC)	A <u>U</u> 4 FIBERGLASS PIPE
	A <u>U</u> 5 ALUMINUM	A <u>U</u> 6 CONCRETE	A <u>U</u> 7 STEEL W/ COATING	A <u>U</u> 8 100% METHANOL COMPATIBLE W/FRP
	A <u>U</u> 9 GALVANIZED STEEL	A <u>U</u> 10 CATHODIC PROTECTION	A <u>U</u> 95 UNKNOWN	A <u>U</u> 99 OTHER
D. LEAK DETECTION	<input type="checkbox"/> 1 AUTOMATIC LINE LEAK DETECTOR	<input type="checkbox"/> 2 LINE TIGHTNESS TESTING	<input type="checkbox"/> 3 INTERSTITIAL MONITORING	<input checked="" type="checkbox"/> 99 OTHER <u>UNK</u>

V. TANK LEAK DETECTION

<input type="checkbox"/> 1 VISUAL CHECK	<input type="checkbox"/> 2 INVENTORY RECONCILIATION	<input type="checkbox"/> 3 VADOZE MONITORING	<input type="checkbox"/> 4 AUTOMATIC TANK GAUGING	<input type="checkbox"/> 5 GROUND WATER MONITORING
<input type="checkbox"/> 6 TANK TESTING	<input type="checkbox"/> 7 INTERSTITIAL MONITORING	<input type="checkbox"/> 91 NONE	<input checked="" type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER

VI. TANK CLOSURE INFORMATION

1. ESTIMATED DATE LAST USED (MO/DAY/YR) <u>UNK</u>	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING <u>5</u> GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
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THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) <u>STEVE DEATHRIAGST</u>	DATE <u>5-12-95</u>
--	------------------------

LOCAL AGENCY USE ONLY THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
PERMIT NUMBER	PERMIT APPROVED BY/DATE		PERMIT EXPIRATION DATE	

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED.

FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

RECEIVED
MAY 17 1995

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



Environmental Health System
Fresno Co Community Health Dept.

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input checked="" type="checkbox"/> 7 PERMANENTLY CLOSED ON SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input type="checkbox"/> 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: USDA 2021 PEACH FRESNO 93727

I. TANK DESCRIPTION COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN

A. OWNER'S TANK I.D.# <u>UNK</u>	B. MANUFACTURED BY: <u>UNK</u>
C. DATE INSTALLED (MO/DAY/YEAR) <u>UNK</u>	D. TANK CAPACITY IN GALLONS: <u>300</u>

II. TANK CONTENTS IF A-1 IS MARKED, COMPLETE ITEM C.

A. <input type="checkbox"/> 1 MOTOR VEHICLE FUEL	<input type="checkbox"/> 4 OIL	B. <input type="checkbox"/> 1 PRODUCT	C. <input type="checkbox"/> 1a REGULAR UNLEADED	<input checked="" type="checkbox"/> 3 DIESEL	<input type="checkbox"/> 6 AVIATION GAS
<input type="checkbox"/> 2 PETROLEUM	<input type="checkbox"/> 80 EMPTY	<input type="checkbox"/> 2 WASTE	<input type="checkbox"/> 1b PREMIUM UNLEADED	<input type="checkbox"/> 4 GASOLIN	<input type="checkbox"/> 7 METHANOL
<input type="checkbox"/> 3 CHEMICAL PRODUCT	<input type="checkbox"/> 95 UNKNOWN		<input type="checkbox"/> 2 LEADED	<input type="checkbox"/> 5 JET FUEL	<input type="checkbox"/> 99 OTHER (DESCRIBE IN ITEM D. BELOW)
D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED					C.A.S.#:

III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E

A. TYPE OF SYSTEM	<input type="checkbox"/> 1 DOUBLE WALL	<input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER	<input type="checkbox"/> 95 UNKNOWN
	<input checked="" type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 4 SECONDARY CONTAINMENT (VAULTED TANK)	<input type="checkbox"/> 99 OTHER
B. TANK MATERIAL (Primary Tank)	<input checked="" type="checkbox"/> 1 BARE STEEL	<input type="checkbox"/> 2 STAINLESS STEEL	<input type="checkbox"/> 3 FIBERGLASS
	<input type="checkbox"/> 5 CONCRETE	<input type="checkbox"/> 6 POLYVINYL CHLORIDE	<input type="checkbox"/> 7 ALUMINUM
	<input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 10 GALVANIZED STEEL	<input type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC
			<input type="checkbox"/> 8 100% METHANOL COMPATIBLE W/FRP
			<input type="checkbox"/> 99 OTHER
C. INTERIOR LINING	<input type="checkbox"/> 1 RUBBER LINED	<input type="checkbox"/> 2 ALKYD LINING	<input type="checkbox"/> 3 EPOXY LINING
	<input type="checkbox"/> 5 GLASS LINING	<input type="checkbox"/> 6 UNLINED	<input checked="" type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 4 PHENOLIC LINING
			<input type="checkbox"/> 99 OTHER
	IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___		
D. CORROSION PROTECTION	<input type="checkbox"/> 1 POLYETHYLENE WRAP	<input type="checkbox"/> 2 COATING	<input type="checkbox"/> 3 VINYL WRAP
	<input type="checkbox"/> 5 CATHODIC PROTECTION	<input type="checkbox"/> 91 NONE	<input checked="" type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC
			<input type="checkbox"/> 99 OTHER
E. SPILL AND OVERFILL	SPILL CONTAINMENT INSTALLED (YEAR) <u>UNK</u>		OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) <u>UNK</u>

IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE	A <u>U</u> 1 SUCTION	A U 2 PRESSURE	A U 3 GRAVITY	A U 99 OTHER
B. CONSTRUCTION	A <u>U</u> 1 SINGLE WALL	A U 2 DOUBLE WALL	A U 3 LINED TRENCH	A U 95 UNKNOWN
				A U 99 OTHER
C. MATERIAL AND CORROSION PROTECTION	A <u>U</u> 1 BARE STEEL	A U 2 STAINLESS STEEL	A U 3 POLYVINYL CHLORIDE (PVC)	A U 4 FIBERGLASS PIPE
	A U 5 ALUMINUM	A U 6 CONCRETE	A U 7 STEEL W/ COATING	A U 8 100% METHANOL COMPATIBLE W/FRP
	A U 9 GALVANIZED STEEL	A U 10 CATHODIC PROTECTION	A U 95 UNKNOWN	A U 99 OTHER
D. LEAK DETECTION	<input type="checkbox"/> 1 AUTOMATIC LINE LEAK DETECTOR	<input type="checkbox"/> 2 LINE TIGHTNESS TESTING	<input type="checkbox"/> 3 INTERSTITIAL MONITORING	<input checked="" type="checkbox"/> 99 OTHER <u>UNK</u>

V. TANK LEAK DETECTION

<input type="checkbox"/> 1 VISUAL CHECK	<input type="checkbox"/> 2 INVENTORY RECONCILIATION	<input type="checkbox"/> 3 VADOZE MONITORING	<input type="checkbox"/> 4 AUTOMATIC TANK GAUGING	<input type="checkbox"/> 5 GROUND WATER MONITORING
<input type="checkbox"/> 6 TANK TESTING	<input type="checkbox"/> 7 INTERSTITIAL MONITORING	<input type="checkbox"/> 91 NONE	<input checked="" type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER

VI. TANK CLOSURE INFORMATION

1. ESTIMATED DATE LAST USED (MO/DAY/YR) <u>UNK</u>	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING <u>50</u> GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
---	---	---

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) <u>Steve Dethlefsen</u>	DATE <u>5-12-95</u>
---	------------------------

LOCAL AGENCY USE ONLY THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
PERMIT NUMBER	PERMIT APPROVED BY/DATE		PERMIT EXPIRATION DATE	

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED.
FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

RECEIVED
MAY 17 1995

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



Environmental Health System
Fresno Co Community Health Dept.

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input checked="" type="checkbox"/> 7 PERMANENTLY CLOSED ON SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input type="checkbox"/> 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: USDA BOAL BEACH FRESNO 93727

I. TANK DESCRIPTION COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN

A. OWNER'S TANK I.D.# <u>unk</u>	B. MANUFACTURED BY: <u>unk</u>
C. DATE INSTALLED (MO/DAY/YEAR) <u>unk</u>	D. TANK CAPACITY IN GALLONS: <u>500</u>

II. TANK CONTENTS IF A-1 IS MARKED, COMPLETE ITEM C.

A. <input type="checkbox"/> 1 MOTOR VEHICLE FUEL	<input type="checkbox"/> 4 OIL	B. <input type="checkbox"/> 1 PRODUCT	C. <input type="checkbox"/> 1a REGULAR UNLEADED	<input checked="" type="checkbox"/> 3 DIESEL	<input type="checkbox"/> 6 AVIATION GAS
<input type="checkbox"/> 2 PETROLEUM	<input type="checkbox"/> 80 EMPTY	<input type="checkbox"/> 2 WASTE	<input type="checkbox"/> 1b PREMIUM UNLEADED	<input type="checkbox"/> 4 GASAHOL	<input type="checkbox"/> 7 METHANOL
<input type="checkbox"/> 3 CHEMICAL PRODUCT	<input type="checkbox"/> 95 UNKNOWN		<input type="checkbox"/> 2 LEADED	<input type="checkbox"/> 5 JET FUEL	<input type="checkbox"/> 99 OTHER (DESCRIBE IN ITEM D. BELOW)
D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED					C. A. S. #:

III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E

A. TYPE OF SYSTEM	<input type="checkbox"/> 1 DOUBLE WALL	<input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER	<input type="checkbox"/> 95 UNKNOWN
	<input checked="" type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 4 SECONDARY CONTAINMENT (VAULTED TANK)	<input type="checkbox"/> 99 OTHER
B. TANK MATERIAL (Primary Tank)	<input checked="" type="checkbox"/> 1 BARE STEEL	<input type="checkbox"/> 2 STAINLESS STEEL	<input type="checkbox"/> 3 FIBERGLASS
	<input type="checkbox"/> 5 CONCRETE	<input type="checkbox"/> 6 POLYVINYL CHLORIDE	<input type="checkbox"/> 7 ALUMINUM
	<input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 10 GALVANIZED STEEL	<input type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 99 OTHER
C. INTERIOR LINING	<input type="checkbox"/> 1 RUBBER LINED	<input type="checkbox"/> 2 ALKYD LINING	<input type="checkbox"/> 3 EPOXY LINING
	<input type="checkbox"/> 5 GLASS LINING	<input type="checkbox"/> 6 UNLINED	<input checked="" type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 4 PHENOLIC LINING
			<input type="checkbox"/> 99 OTHER
	IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___		
D. CORROSION PROTECTION	<input type="checkbox"/> 1 POLYETHYLENE WRAP	<input type="checkbox"/> 2 COATING	<input type="checkbox"/> 3 VINYL WRAP
	<input type="checkbox"/> 5 CATHODIC PROTECTION	<input type="checkbox"/> 91 NONE	<input checked="" type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC
			<input type="checkbox"/> 99 OTHER
E. SPILL AND OVERFILL	SPILL CONTAINMENT INSTALLED (YEAR) <u>unk</u>		OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) <u>unk</u>

IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND DR U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE	<input checked="" type="radio"/> 1 SUCTION	<input type="radio"/> 2 PRESSURE	<input type="radio"/> 3 GRAVITY	<input type="radio"/> 99 OTHER
B. CONSTRUCTION	<input checked="" type="radio"/> 1 SINGLE WALL	<input type="radio"/> 2 DOUBLE WALL	<input type="radio"/> 3 LINED TRENCH	<input type="radio"/> 95 UNKNOWN
				<input type="radio"/> 99 OTHER
C. MATERIAL AND CORROSION PROTECTION	<input checked="" type="radio"/> 1 BARE STEEL	<input type="radio"/> 2 STAINLESS STEEL	<input type="radio"/> 3 POLYVINYL CHLORIDE (PVC)	<input type="radio"/> 4 FIBERGLASS PIPE
	<input type="radio"/> 5 ALUMINUM	<input type="radio"/> 6 CONCRETE	<input type="radio"/> 7 STEEL W/ COATING	<input type="radio"/> 8 100% METHANOL COMPATIBLE W/FRP
	<input type="radio"/> 9 GALVANIZED STEEL	<input type="radio"/> 10 CATHODIC PROTECTION	<input type="radio"/> 95 UNKNOWN	<input type="radio"/> 99 OTHER
D. LEAK DETECTION	<input type="checkbox"/> 1 AUTOMATIC LINE LEAK DETECTOR	<input type="checkbox"/> 2 LINE TIGHTNESS TESTING	<input type="checkbox"/> 3 INTERSTITIAL MONITORING	<input checked="" type="checkbox"/> 99 OTHER <u>unk</u>

V. TANK LEAK DETECTION

<input type="checkbox"/> 1 VISUAL CHECK	<input type="checkbox"/> 2 INVENTORY RECONCILIATION	<input type="checkbox"/> 3 VADOZE MONITORING	<input type="checkbox"/> 4 AUTOMATIC TANK GAUGING	<input type="checkbox"/> 5 GROUND WATER MONITORING
<input type="checkbox"/> 6 TANK TESTING	<input type="checkbox"/> 7 INTERSTITIAL MONITORING	<input type="checkbox"/> 91 NONE	<input checked="" type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER

VI. TANK CLOSURE INFORMATION

1. ESTIMATED DATE LAST USED (MO/DAY/YR) <u>unk</u>	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING <u>50</u> GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
---	---	---

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) <u>Steve Deather</u>	DATE <u>5-12-95</u>
--	------------------------

LOCAL AGENCY USE ONLY THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
PERMIT NUMBER	PERMIT APPROVED BY/DATE		PERMIT EXPIRATION DATE	

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED.
FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS



HEALTH SERVICES AGENCY
COMMUNITY HEALTH DEPARTMENT

Environmental Health Application

P.O. Box 11800, Fresno, California 93775
1221 Fulton Mall - ☎ (209) 445-3357

PLEASE PRINT OR TYPE

Business Name _____

Inspection Site Address _____

Date of Business Commencement _____ Business Telephone _____

Billing Address _____

Business Owner _____

Owner Address _____

Telephone _____

The Applicant hereby agrees to abide by all applicable Federal, State, and Fresno County statutes, laws, regulations, and the Fresno County Charter Ordinances and to pay all applicable Fresno County Environmental Health Permit and Inspection Fees, and late penalties, if any, which apply to the Permit which is being applied for here. PENALTIES FOR LATE PAYMENT ARE ASSESSED AT 10% PER MONTH OR FRACTION THEREOF. Notify Environmental Health of any change in the type of business activity, name, billing address, or ownership by calling 445-3357. Failure to notify Environmental Health may result in late penalties, Permit denial or revocation, and business closure. PERMITS AND FEES ARE NOT TRANSFERABLE

Owner / Authorized Representative _____ Title _____ Date _____
— DO NOT WRITE BELOW THIS LINE —

Record ID#	Prog Elem #	Fee/Activity Description	Billing Code	Fee
PR032720	630D	1ST REMOVAL TANK		\$99.00
	6501	State Discharge		56.00

Penalty Calculation: _____
TOTAL AMOUNT DUE 155.00

RETURN TO: POMARILLE Date Left: _____ ROUTE TO: Business Envision File

New Business Ownership Change Business Name Change Billing Address Change Other

Close(inactive) Close(delete) Closure Date 2/9/95 Site Correction/Change Activity Change ^{ADD}

Comments add found an additional tank. PE#6307

Business Name USDA Agricultural Research Owner USDA

Inspection Site 2021 S PEARL AVE Census Tract # 1406 City Code 05

Business ID # 170540 Tank # _____ Permit Code __ Designated Employee ID # 1000

Application Approved By: Randy Reges Employee ID# 0128 Date 5/11/95

Business Office Use
Paid 5/11/95
73709
\$ 155.00

Envision updated by SA Date 5/17/95
Supervisor Review DP 111 Ⓞ

A/R# 0005343

UNDERGROUND STORAGE TANK PERMIT APPLICATION

FRESNO COUNTY COMMUNITY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SYSTEM
P.O. BOX 11867
FRESNO, CA. 93775

ABANDONMENT/REMOVAL ABANDONMENT/IN PLACE NEW CONSTRUCTION REPAIR

FACILITY INFORMATION

Facility Name USDA RESEARCH CTR Facility Phone 453-3007 Job Phone SAME.
Address 2021 S. PEACH AVE City FRESNO State CA Zip 93727
Tank Owner SAME. Phone _____
Address _____ City _____ State _____ Zip _____

CONTRACTOR INFORMATION	TANK CLEANER/TRANSPORTER	CONSULTANT INFORMATION
Company <u>KROEGER, INC</u>	Company <u>KROEGER, INC</u>	Company <u>KOZAK & ASSOC</u>
Address <u>527 W. BROWNING AVE</u>	Address <u>SAME.</u>	Address <u>215 W. BROWNING AVE</u>
City <u>FRESNO</u> Zip <u>93704</u>	City _____ Zip <u>1</u>	City <u>FRESNO</u> Zip <u>93612</u>
Phone <u>439-0604</u>	Phone _____	Phone <u>348-2200</u>
Contractor Class <u>A</u>	Waste Transporter ID No. <u>1905</u>	Registration Type <u>REE</u>
License No. <u>621846</u>	Tank Destination <u>Western Mtns</u>	License No. <u>34274</u>
Site Contact Person <u>Steve Courtney</u>	Rinse Manifested <input checked="" type="checkbox"/> Tank Manifested _____	

TANK INFORMATION

PERMIT #	SIZE	PRODUCT	AGE OF TANK	PREVIOUSLY STORED MATERIAL
<u>3749</u>	<u>250</u>	<u>Heating oil</u>	<u>UNKNOWN</u>	<u>Heating oil</u>
<u>3750</u>	<u>250</u>	<u>Same</u>	<u>UNK</u>	<u>Same</u>
<u>3751</u>	<u>250</u>	<u>Same</u>	<u>UNK</u>	<u>Same</u>
<u>3752</u>	<u>250</u>	<u>Same</u>	<u>UNK</u>	<u>Same</u>
<u>3833</u>	<u>250</u>	<u>Same</u>	<u>UNK</u>	<u>Same</u>

DESCRIBE WORK TO BE PERFORMED

Remove & Dispose UST.

OFFICIAL USE ONLY

PR# <u>032720</u>	CT <u>14-06</u>	APN <u>481-020-291</u>	Fee \$ <u>738-00</u>	Application Date <u>2/9/95</u>
-------------------	-----------------	------------------------	----------------------	--------------------------------

NOTE: Permit expires ninety (90) days after the application date. The applicant has received, understands, and will comply with the attached conditions of this permit and any other State and local regulations. Permit Conditions provided State Permit Application (forms A, B, C) provided

Grading Permit confirmation

Harold Gill
APPROVED BY

Steve Courtney
APPLICANT NAME (PRINT)

Steve Courtney
APPLICANT SIGNATURE / TITLE



**HEALTH SERVICES AGENCY
COMMUNITY HEALTH DEPARTMENT
Environmental Health Application**
P.O. Box 11800, Fresno, California 93775
1221 Fulton Mall - ☎ (209) 445-3357

PLEASE PRINT OR TYPE

Business Name USDA RESEARCH

Inspection Site Address _____

Date of Business Commencement _____ **Business Telephone** _____

Billing Address _____

Business Owner _____

Owner Address _____

Telephone _____

The Applicant hereby agrees to abide by all applicable Federal, State, and Fresno County statutes, laws, regulations, and the Fresno County Charter Ordinances and to pay all applicable Fresno County Environmental Health Permit and Inspection Fees, and late penalties, if any, which apply to the Permit which is being applied for here. PENALTIES FOR LATE PAYMENT ARE ASSESSED AT 10% PER MONTH OR FRACTION THEREOF. Notify Environmental Health of any change in the type of business activity, name, billing address, or ownership by calling 445-3357. Failure to notify Environmental Health may result in late penalties, Permit denial or revocation, and business closure. PERMITS AND FEES ARE NOT TRANSFERABLE.

Stephen Combs CONTRACTOR 2-9-95
Owner / Authorized Representative Title Date

— DO NOT WRITE BELOW THIS LINE —

Record ID#	Prog Elem #	Fee/Activity Description	Billing Code	Fee
<u>PRO32720</u>	<u>6304</u>	<u>UST Removal w/4</u>		<u>514-00</u>
	<u>6501</u>	<u>STATE SURCHARGE w/4</u>		<u>224-00</u>

Penalty Calculation: TOTAL AMOUNT DUE 738-00

RETURN TO: Pomona Date Left: _____ ROUTE TO: Business Envision File

New Business Ownership Change Business Name Change Billing Address Change Other
 Close (inactive) Close (delete) Closure Date 2/9/95 Site Correction/Change Activity Change

Comments _____

Business Name USDA Agricultural Research Owner USDA

Inspection Site 2021 S. Pearl Ave. Census Tract # 1406 City Code 05

Business ID # 170540 Tank # _____ Permit Code ___ Designated Employee ID # 1000

Application Approved By: Hannah Gill Employee ID # 0224 Date 2/9/95

Envision updated by SA Date 2/21/95

Supervisor Review DP WV CB

Business Office Use
Pd 2-9-95
Rec # 69250
\$ 738.00

A/R # 0005343
WPS1\DATA\FORM1D 10-8-91 (Rev. 7.93)

GUIDELINES FOR INSPECTION OF PUBLIC RECORDS

All public records of the Fresno County Department of Health, Environmental Health System, which are subject to disclosure under the provisions of the California Public Records Act (Government Code Sections 6250 - 6260), are open to inspection by the public during normal office hours of the office at which those records are located. However, certain records are confidential, and the Department may not release these records to the public. They include all complaint files, inter-office memos, all material in "Confidential" air pollution folders, personnel records, well logs, field notes and preliminary drafts for use by the Department.

Any person who wishes to inspect a public record may present his request to the clerk on duty where the public record is located. A particular record, or if not known, the particular type or class of records, may be requested.

No record may be removed from the office unless subpoenaed. Copies can be made at a charge of 10¢ for each original copy for copies 1 - 8. A charge of .05¢ per copy will be made on copies of 9 or more. The requestor may reproduce a copy by his own means, subject to the limitations that no record is removed from the office and that the record is not damaged by the reproduction equipment.

The Department may temporarily deny or restrict inspection of public records under the following circumstances:

1. Records are at the particular time required by staff or other officials in performing their duties.
2. Supervision of inspection is at that particular moment not possible.
3. Other members of the public are waiting to inspect those records.

REQUEST TO INSPECT PUBLIC RECORDS

Signature [Handwritten Signature] Representing Krajan Date 10-12-93

I have read the Department's guidelines and wish to inspect the following public record.

Complete Description:

~~OSDA~~ OSDA Ag Research Ugst
2021 S. Peach
FRESNO

To be completed by Departmental Office:

Approved
 Inspected

Disclosure of requested record is prohibited

Departmental Representative

Date

[Handwritten Signature]

10/14/93

GUIDELINES FOR INSPECTION OF PUBLIC RECORDS

All public records of the Fresno County Department of Health, Environmental Health System, which are subject to disclosure under the provisions of the California Public Records Act (Government Code Sections 6250 - 6260), are open to inspection by the public during normal office hours of the office at which those records are located. However, certain records are confidential, and the Department may not release these records to the public. They include all complaint files, inter-office memos, all material in "Confidential" air pollution folders, personnel records, well logs, field notes and preliminary drafts for use by the Department.

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2. Supervision of inspection is at that particular moment not possible.
3. Other members of the public are waiting to inspect those records.

REQUEST TO INSPECT PUBLIC RECORDS

Signature Barbara Brand Representing Kleinfelder Date 12/31/91

I have read the Department's guidelines and wish to inspect the following public record.

Complete Description: USDA Ag Research Service
2021 S. Peach

To be completed by Departmental Office:
 Approved Inspected JA Disclosure of requested record is prohibited _____

Departmental Representative _____ Date 1/0/91

GUIDELINES FOR INSPECTION OF PUBLIC RECORDS

All public records of the Fresno County Department of Health, Environmental Health System, which are subject to disclosure under the provisions of the California Public Records Act (Government Code Sections 6250 - 6260), are open to inspection by the public during normal office hours of the office at which those records are located. However, certain records are confidential, and the Department may not release these records to the public. They include all complaint files, inter-office memos, all material in "Confidential" air pollution folders, personnel records, well logs, field notes and preliminary drafts for use by the Department.

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1. Records are at the particular time required by staff or other officials in performing their duties.
2. Supervision of inspection is at that particular moment not possible.
3. Other members of the public are waiting to inspect those records.

REQUEST TO INSPECT PUBLIC RECORDS

Signature	Representing	Date
<i>Jay Brewer</i>	ENICON ASSOCIATES	8/21/91

I have read the Department's guidelines and wish to inspect the following public record.

Complete Description:

2021 S PEACH, FRESNO, USDA AG RESEARCH SERVICE
PR032720
(UNDERGROUND TANK)

<u>To be completed by Departmental Office:</u>	
<input checked="" type="checkbox"/> Approved <input checked="" type="checkbox"/> Inspected <u>CB</u>	<input type="checkbox"/> Disclosure of requested record is prohibited

<u>Departmental Representative</u> <i>Christopher Brown</i>	<u>Date</u> 8/28/91
--	------------------------

November 14, 1990

Department of Health

George Bleth
Director

U.S.D.A. Agriculture Research Service
2021 S. Peach
Fresno, California 93711

Dear Sirs:

Subject: Certification of Response Action
Location: 2021 S. Peach, Fresno, Ca

This letter confirms the completion of a site investigation and/or remedial action with regard to a release of hazardous substances or waste in relation to underground storage tanks at the above site. With the provision that the information provided to this office is accurate and representative of existing conditions, no further action is required at this time.

The site should now be properly closed, including backfilling as necessary. If any tank has been abandoned in place, the existence of the tank(s) and fittings must be recorded on the property deed.

We are required by the State to advise you that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present, or future operations at the site. Nor does it relieve you of the responsibility to clean up existing, additional or previously unidentified conditions at the site which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health. Additionally, changes in the present or proposed use of the site may require further site characterization and mitigation activity. It is the property owner's responsibility to notify this agency of any changes in report content, future contamination findings, or site usage.

Further, nothing in the above determination: 1) is intended or shall be construed to limit the rights of any parties with respect to claims arising out of or relating to deposit or disposal at any other location of substances removed from the site; 2) is intended or shall be construed to limit or preclude the County or any other agency from taking any action authorized by law, including, but not limited to, any further enforcement actions. Notwithstanding compliance with any previous directives, you may be required to take further actions as are necessary to protect public health and the environment.

Please call me at (209) 445-3271 if you have any questions.

Respectfully,



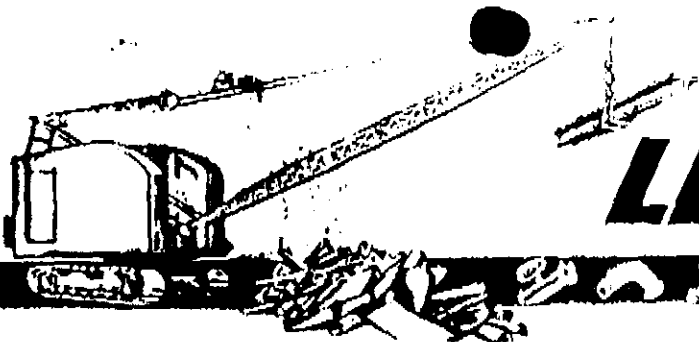
Milton Barnes
Environmental Health Analyst
Environmental Health System

EHS #2432

MB:lfh

C: Crisp Construction

445-3271



LEVI'S IRON & METAL CO.

SCRAP IRON and STEEL • COPPER • BRASS • ALUMINUM

2727 SOUTH CHESTNUT FRESNO, CA 93725

NEW & USED

PIPE • TUBING • FITTINGS • STRUCTURAL STEEL • SALVAGE MATERIALS

PHONE 209-233-3211

RECEIVED:

1 EA.

350 GAL GASOLINE TANK

GENERATOR:

USDA AG
2021 S. Peach
Fresno, Ca 93711

TANK TRANSPORTER

CRISP CONSTRUCTION
433 N. ATWOOD
VISALIA, CA

LEVI'S IRON & METAL, INC

Michel J. Ricci - Buyer

ERMA FOUTY
OFFICE MANAGER

RECEIVED

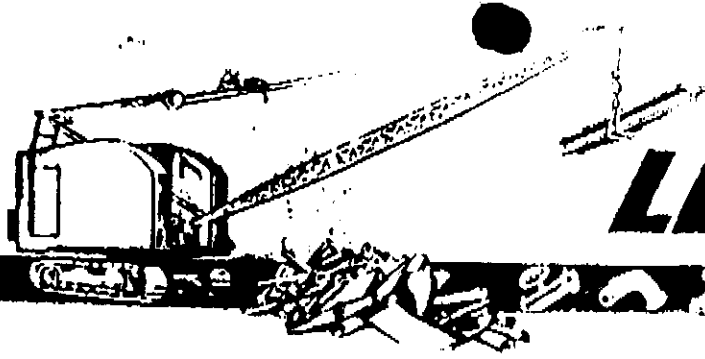
MAY 03 1990

ENVIRONMENTAL HEALTH SYSTEM
FRESNO COUNTY DEPT. OF HEALTH



Serving Industry Since 1914





LEVI'S IRON & METAL CO.

SCRAP IRON and STEEL • COPPER • BRASS • ALUMINUM

2727 SOUTH CHESTNUT FRESNO, CA 93725

NEW & USED

PIPE • TUBING • FITTINGS • STRUCTURAL STEEL • SALVAGE MATERIALS

RECEIVED: LEA 300 GAL GASOLINE TANK

GENERATOR: USDA AC
2021 S. Peach
Fresno, Ca 93711

TANK TRANSPORTER CRISP CONSTRUCTION
433 N. ATWOOD
VISALIA, CA

LEVI'S IRON & METAL, INC

Michl D. Rose - Buyer

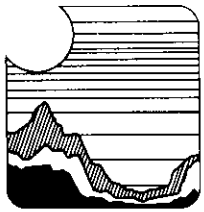
ERMA FOUTY
OFFICE MANAGER



Serving Industry Since 1914



Transmittal Data Letter
for
AGRICULTURE RESEARCH SERVICE (USDA)
2021 SOUTH PEACH AVENUE
FRESNO, CALIFORNIA



ETS

ENVIRONMENTAL &
ASSOCIATES

April 23, 1990

Agriculture Research Service
2021 S. Peach Ave.
Fresno, California

RE: Transmittal of Data Letter concerning the soil analyses collected from the 250 gallon gasoline tank removal from 2021 S. Peach Avenue, Fresno, California.

Dear Sir:

Enclosed please find the analytical results of the soil sample collected during the recent tank removal.

As a review, Crisp Construction excavated and removed one 250 gallon gasoline tank. ETS Environmental under the supervision of Milton Barns (Fresno County Department of Health), collected one soil sample at the fill end of the gasoline tank at a depth of 7 feet. The soil sample was analyzed for TPH (Gasoline) and BTX&E hydrocarbon constituents in accordance with FCEHD Guidelines.

For the results of the analyses performed and the location of where the samples were collected from, please see Table 1 (Soil Analyses From Soil Excavation), Figure 1, Site Plan and Appendix A (Analytical Results).

TABLE 1
(Soil Analyses Results)

SAMPLE LOCATION	TPH (ppm) (Gasoline)	B (ppm)	T (ppm)	X (ppm)	EB (ppm)
1000590-4690-TANK1A-7'	<0.05	<0.005	<0.005	<0.005	<0.005

Based upon field observations and laboratory analysis, ETS Environmental, has made the following findings:

- 1) The analysis of the soil sample collected from underneath the gasoline tank indicates no evidence of soil contamination or tank failure.
- 2) Groundwater was not encountered in the removal of the excavated soil.
- 3) A small 1/8 inch hole was observed in the bottom of the tank.

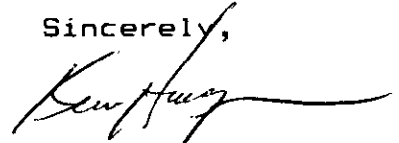
Based on these findings, observations and analytical results, ETS Environmental, makes the following suggestions:

- 1) The excavated area be back-filled and compacted for safety reasons.
- 2) ETS Environmental acting on behalf of the Agriculture Research Service (USDA) will request that permanent tank closure be granted for this tank located at 2021 S. Peach Avenue, Fresno, California.

ETS ENVIRONMENTAL & ASSOC.
TD, PAGE 3

Should you have any questions regarding the information provided, or should this problem required further attention, then please do not hesitate to contact our Merced office at (209) 384-1041. Thank you for allowing ETS Environmental & CRISP Construction the opportunity to serve your environmental needs.

Sincerely,



Kevin Haagenson
Project Manager

KMH:dbh

Enclosures

cc: Milton Barns
County of Fresno Department of Health

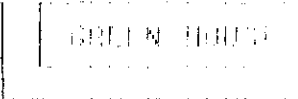
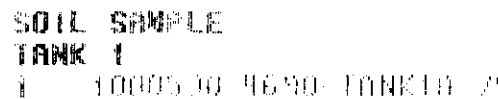
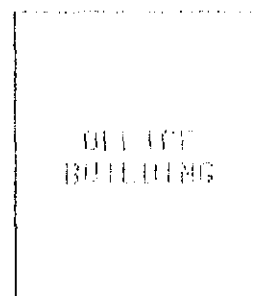
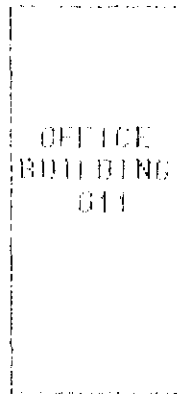
Mr. Brian Newman
CVRWQCB

Mr. Steven Randall
ETS Project Engineer

files

SOUTH PEACH AVENUE

SOUTH PEACH AVENUE



NOTE: SKETCH NOT DRAWN TO SCALE

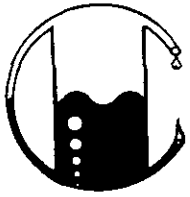
SITE PLAN - FIGURE 1

ETS ENVIRONMENTAL, INC. CONSULTANTS

PROJECT NO: 1005 30

USA (2021 S. PEACH AVENUE, FOLSOM, CA.)

Appendix A
(Analytical Results)



MOBILE CHEM LABS INC.

1678 Reliez Valley Road
Lafayette, CA 94549 • (415) 945-1266

ETS Environmental Consultants
P.O. Box 2242
Merced, CA 95340
Attn: Daniel Anderson

Date Sampled:04-06-90
Date Received:04-07-90
Date Reported:04-20-90

Sample Number

040015

Sample Description

Project Name:1000590

Tank 1A-7' SOIL
(FILL-END)

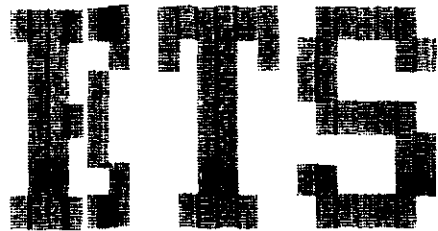
ANALYSIS

	Detection Limit	Sample Results
	----- ppm	----- ppm
Total Petroleum Hydrocarbons as Gasoline	0.05	<0.05
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005

Note: Analysis was performed using EPA methods 5030 and TPH LUFT
with method 8020 used for BTX distinction.

MOBILE CHEM LABS

Ronald G. Evans
Lab Director



c40015

ETS ASSOCIATES
ENVIRONMENTAL CONSULTANTS

NOTE: In preparing legal documents always use ink and signatures.

CHAIN OF CUSTODY RECORD

TURNAROUND TIME
24 Hour Routine

PAGE
1 of 1

PROJECT NAME:
1000590

SAMPLE (Signature):
[Signature]

Number of Containers/
Type of Sample

ANALYSIS REQUIRED

Date Completed
Lab ID.

Date	Time	Sample Location
4-6-90	4:00pm	1000590-4690-TANKIA-7'

1 BRASS SURVE

TPH GAS
BTX+V
EPA 8020

X X

3 PLEASE RUN
LOW DETECTION
LEVEL!

Relinquished by: <i>[Signature]</i>	Date / Time 4-7-90 10:50pm	Relinquished by: <i>[Signature]</i>	Date / Time	Relinquished by: <i>[Signature]</i>	Date / Time
Company: BTS		Company:		Company:	
Received by: <i>[Signature]</i>	Date / Time	Received by: <i>[Signature]</i>	Date / Time	Received by: <i>[Signature]</i>	Date / Time 4/7/90 10:50pm
Company:		Company:		Company: MCL	

UNDERGROUND STORAGE TANK
FACT SHEET

APN # _____
ID # 89181-1
EXISTING TANK _____ NEW TANK _____
PRESSURE TYPE _____ SUCTION TYPE _____

1. FACILITY NAME U.S. DA. AGRICULTURAL RESEARCH
2. ADDRESS 2021 S. PEACH CITY FRESNO ZIP 93711
3. OPERATOR SAME PHONE _____
4. OWNER NAME SAME PHONE _____
5. ADDRESS _____ CITY _____ ZIP _____
6. TANK(s) NO. & SIZE _____
(a) TYPE _____
UL SERIAL # _____
(b) PRODUCT _____
7. DATE BUILT _____
8. MONITORING DEVICE _____
(a) PIPING _____
(b) TANK(s) _____
9. MONITORING ALTERNATIVE _____

COMMENTS: 1- 550 gallon tank removed 8/22/89
1- 250 gallon tank removed 4/6/90



FORM 'A':

SITE

UNDERGROUND STORAGE TANK PROGRAM FACILITY/SITE, INFORMATION and/or PERMIT APPLICATION

COMPLETE THIS FORM FOR EACH FACILITY/SITE

1986

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input checked="" type="checkbox"/> 5 CHANGE OF INFORMATION	<input type="checkbox"/> 7 PERMANENTLY CLOSED SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY SITE CLOSURE	

I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMPLETED)

FACILITY/SITE NAME		CARE OF ADDRESS INFORMATION		
ADDRESS		NEAREST CROSS STREET	<input checked="" type="checkbox"/> Box to indicate CORPORATION <input type="checkbox"/> INDIVIDUAL	<input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> LOCAL-AGENCY <input type="checkbox"/> COUNTY-AGENCY <input type="checkbox"/> STATE-AGENCY <input type="checkbox"/> FEDERAL-AGENCY
CITY NAME		STATE	ZIP CODE	SITE PHONE #, WITH AREA CODE
TYPE OF BUSINESS: <input type="checkbox"/> 1 GAS STATION <input type="checkbox"/> 2 DISTRIBUTOR <input type="checkbox"/> 3 FARM <input type="checkbox"/> 4 PROCESSOR <input type="checkbox"/> 5 OTHER		<input checked="" type="checkbox"/> Box if INDIAN RESERVATION or TRUST LANDS <input type="checkbox"/>	EPA ID #	# of TANK's AT THIS SITE 2
EMERGENCY CONTACT PERSON (PRIMARY)		EMERGENCY CONTACT PERSON (SECONDARY)		
DAYS: NAME (LAST, FIRST) PHONE # WITH AREA CODE		DAYS: NAME (LAST, FIRST) PHONE # WITH AREA CODE		
NIGHTS: NAME (LAST, FIRST) PHONE # WITH AREA CODE		NIGHTS: NAME (LAST, FIRST) PHONE # WITH AREA CODE		

II. PROPERTY OWNER INFORMATION & ADDRESS - (MUST BE COMPLETED)

NAME		CARE OF ADDRESS INFORMATION		
MAILING or STREET ADDRESS		<input checked="" type="checkbox"/> Box to indicate CORPORATION <input type="checkbox"/> INDIVIDUAL	<input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> LOCAL-AGENCY <input type="checkbox"/> COUNTY-AGENCY	<input type="checkbox"/> STATE-AGENCY <input type="checkbox"/> FEDERAL-AGENCY
CITY NAME		STATE	ZIP CODE	PHONE #, WITH AREA CODE

III. TANK OWNER INFORMATION & ADDRESS - (MUST BE COMPLETED)

NAME		CARE OF ADDRESS INFORMATION		
MAILING or STREET ADDRESS		<input checked="" type="checkbox"/> Box to indicate CORPORATION <input type="checkbox"/> INDIVIDUAL	<input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> LOCAL-AGENCY <input type="checkbox"/> COUNTY-AGENCY	<input type="checkbox"/> STATE-AGENCY <input type="checkbox"/> FEDERAL-AGENCY
CITY NAME		STATE	ZIP CODE	PHONE #, WITH AREA CODE

IV. LEGAL NOTIFICATION AND BILLING ADDRESS

CHECK ONE (1) BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR BOTH LEGAL NOTIFICATION AND BILLING: I. II. III.

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

APPLICANT'S NAME (PRINTED & SIGNATURE)	DATE
--	------

LOCAL AGENCY USE ONLY

COUNTY #	JURISDICTION #	AGENCY #	FACILITY ID #	# of TANKS at SITE
CURRENT LOCAL AGENCY FACILITY ID #		APPROVED BY NAME		PHONE # WITH AREA CODE
PERMIT NUMBER	PERMIT APPROVAL DATE	PERMIT EXPIRATION DATE		
LOCATION CODE	CENSUS TRACT #	SUPERVISOR-DISTRICT CODE	BUSINESS PLAN FILED YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE FILED
CHECK #	PERMIT AMOUNT	SURCHARGE AMOUNT	FEE CODE	RECEIPT # BY:

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE TANK PERMIT FORM 'B' APPLICATION(S), UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY. FORM A (3-2-88)

FILE COPY

STATE OF CALIFORNIA

WATER RESOURCES CONTROL BOARD



FORM 'B': TANK

UNDERGROUND STORAGE TANK PROGRAM TANK PERMIT APPLICATION INFORMATION

COMPLETE A SEPARATE FORM WITH THE FOLLOWING INFORMATION FOR EACH TANK.

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input type="checkbox"/> 7 PERMANENTLY CLOSED TANK
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input checked="" type="checkbox"/> 8 TANK REMOVED

FACILITY/SITE NAME WHERE TANK IS INSTALLED: U.S. V.L. AGRICULTURAL RESEARCH FARM TANK - YES NO

I. TANK DESCRIPTION COMPLETE ALL ITEMS - IF UNKNOWN - SO SPECIFY

A. OWNERS TANK ID #	B. MANUFACTURED BY:
C. YEAR INSTALLED <u>UNK</u>	D. TANK CAPACITY IN GALLONS: <u>250</u>

II. TANK CONTENTS IF (A.1), IS MARKED, COMPLETE ITEM C. IF (A.1), IS NOT MARKED, COMPLETE ITEM D.

A. <input checked="" type="checkbox"/> 1 MOTOR VEHICLE FUEL	<input type="checkbox"/> 2 PETROLEUM	B. <input checked="" type="checkbox"/> 1 PRODUCT	C. <input type="checkbox"/> 1 UNLEADED	<input checked="" type="checkbox"/> 2 LEADED	<input type="checkbox"/> 3 DIESEL
<input type="checkbox"/> 3 CHEMICAL PRODUCT	<input type="checkbox"/> 4 OIL	<input type="checkbox"/> 2 WASTE	<input type="checkbox"/> 4 GASAHOL	<input type="checkbox"/> 5 JET FUEL	<input type="checkbox"/> 6 AVIATION GAS
<input type="checkbox"/> 5 HAZARDOUS	<input type="checkbox"/> 80 EMPTY	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 7 METHANOL	<input type="checkbox"/> 99 OTHER (DESCRIBE IN ITEM D, BELOW)	

D. IF NOT MOTOR VEHICLE FUEL, ENTER NAME OF HAZARDOUS SUBSTANCE STORED & C.A.S. # _____ C.A.S. #: _____

III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOX A, B, C, & D

A. TYPE OF SYSTEM	<input type="checkbox"/> 1 DOUBLE WALLED	<input type="checkbox"/> 3 SINGLE WALLED WITH EXTERIOR LINER	<input type="checkbox"/> 95 UNKNOWN
	<input checked="" type="checkbox"/> 2 SINGLE WALLED	<input type="checkbox"/> 4 SECONDARY CONTAINMENT	<input type="checkbox"/> 99 OTHER _____
B. TANK MATERIAL	<input checked="" type="checkbox"/> 1 STEEL/IRON	<input type="checkbox"/> 2 STAINLESS STEEL	<input type="checkbox"/> 3 FIBERGLASS
	<input type="checkbox"/> 5 CONCRETE	<input type="checkbox"/> 6 POLYVINYL CHLORIDE	<input type="checkbox"/> 7 ALUMINUM
	<input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 10 GALVANIZED STEEL	<input type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 4 STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC
			<input type="checkbox"/> 8 100% METHANOL COMPATIBLE FRP
			<input type="checkbox"/> 99 OTHER _____
C. INTERIOR LINING	<input type="checkbox"/> 1 RUBBER LINED	<input type="checkbox"/> 2 ALKYL LINING	<input type="checkbox"/> 3 EPOXY LINING
	<input type="checkbox"/> 5 GLASS LINING	<input checked="" type="checkbox"/> 6 UNLINED	<input type="checkbox"/> 4 PHENOLIC LINING
	<input type="checkbox"/> IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
			<input type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 99 OTHER _____
D. CORROSION PROTECTION	<input type="checkbox"/> 1 POLYETHYLENE WRAP	<input type="checkbox"/> 2 TAR OR ASPHALT	<input type="checkbox"/> 3 VINYL WRAP
	<input type="checkbox"/> 5 CATHODIC PROTECTION	<input checked="" type="checkbox"/> 91 NONE	<input type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC
			<input type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 99 OTHER _____

IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND, U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE	<input checked="" type="radio"/> A <input checked="" type="radio"/> U 1 SUCTION	A U 2 PRESSURE	A U 3 GRAVITY	A U 91 NONE	A U 95 UNKNOWN	A U 99 OTHER
B. CONSTRUCTION	A <input checked="" type="radio"/> U 1 SINGLE WALLED	A U 2 DOUBLE WALLED	A U 3 LINED TRENCH	A U 91 NONE	A U 95 UNKNOWN	A U 99 OTHER
C. MATERIAL	A <input checked="" type="radio"/> U 1 STEEL/IRON	A U 2 STAINLESS STEEL	A U 3 POLYVINYL CHLORIDE (PVC)	A U 4 FIBERGLASS PIPE	A U 91 NONE	
	A U 5 ALUMINUM	A U 6 CONCRETE	A U 7 STEEL CLAD W/FRP	A U 8 100% METHANOL COMPATIBLE FRP		
	A U 9 GALVANIZED STEEL	A U 95 UNKNOWN	A U 99 OTHER			

V. LEAK DETECTION SYSTEM CIRCLE P FOR PRIMARY, OR S FOR SECONDARY, A PRIMARY LEAK DETECTION SYSTEM MUST BE CIRCLED.

<input checked="" type="radio"/> P <input checked="" type="radio"/> S 1 VISUAL CHECK	<input checked="" type="radio"/> P <input checked="" type="radio"/> S 2 INVENTORY RECONCILIATION	<input type="radio"/> P <input type="radio"/> S 3 VADOSE WELLS	<input type="radio"/> P <input type="radio"/> S 4 ELECTRONIC MONITOR	<input type="radio"/> P <input type="radio"/> S 5 GROUND WATER MONITORING WELLS
<input type="radio"/> P <input type="radio"/> S 6 PRECISION TESTING	<input type="radio"/> P <input type="radio"/> S 7 PRESSURE TESTING	<input type="radio"/> P <input type="radio"/> S 91 NONE	<input type="radio"/> P <input type="radio"/> S 95 UNKNOWN	<input type="radio"/> P <input type="radio"/> S 99 OTHER _____

VI. INFORMATION ON TANK PERMANENTLY CLOSED IN PLACE

1. ESTIMATED DATE LAST USED (MO/YR) <u>1972</u>	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING IN _____ GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
--	---	---

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

APPLICANT'S NAME (PRINTED & SIGNATURE)

DATE

LOCAL AGENCY USE ONLY

COUNTY # <u>10</u>	JURISDICTION #	AGENCY #	FACILITY ID #	TANK ID #
CURRENT LOCAL AGENCY FACILITY ID # <u>89181-1</u>	APPROVED BY NAME <u>Milton Ramon</u>		PHONE # WITH AREA CODE <u>209 445 3271</u>	
PERMIT NUMBER	PERMIT APPROVAL DATE	PERMIT EXPIRATION DATE		
CHECK #	PERMIT AMOUNT	SURCHARGE AMT.	FEE CODE	RECEIPT #
				BY:

NO 78264

FRESNO COUNTY DEPARTMENT OF HEALTH
 ENVIRONMENTAL HEALTH SYSTEM
 P.O. BOX 11867, FRESNO, CA 93775
 TELEPHONE (209) 445-3271

ABANDONMENT INSPECTION REPORT

A. SITE INFORMATION:

Site Address 2021 S. PEACH City FRESNO Zip 93711
 Facility Name AGRICULTURAL RESEARCH SERVICE APN _____
 Owner/Operator _____ Phone _____
 Mailing Address _____ City _____ Zip _____

B. INSPECTION INFORMATION:

Abandon In Place _____ Removal

Tank #/Tank Size 1. 1 / 250 2. _____ 3. _____
 4. _____ 5. _____ 6. _____

	Y/N	Comments
Tank(s) has been completely emptied prior to removal	Y	
Tank(s) has been cleaned and waste manifested	Y	
Tank(s) properly purged / LEL below 5%	Y	
Piping removed	Y	
Backfill method approved for abandonment in place		
Groundwater/Product in excavation (Circle One)		

Soil discoloration - note location(s): NONE - NO detectable odors

General tank condition (describe): more rust on top half than bottom - one hole in bottom of tank

CONTRACTOR CERTIFIES PROPER DECONTAMINATION OF TANKS HAS BEEN PERFORMED:

Additional Comments:
CAD 9820054980006 - GIBSON REFINERY
M.P. VACUUM SERVICE - BARNESFIELD

Plot Plan Legend	
(X) Sample Location	<p>35' diameter 250 gal 3/16 hole in bottom center of tank 13TXE-8020 TPH</p>
Depth of Sample(s):	
tanks _____	
piping _____	
Sample Analyses Required	
<input checked="" type="checkbox"/> TPH (GAS) DIESEL by	
DHS-GC/FID (LUFT)	
<input checked="" type="checkbox"/> B.T.X.E. by 8020	
<input type="checkbox"/> EPA 418.1	
<input type="checkbox"/>	

OFFICIAL USE ONLY

Site I.D. 89,81-1 CT _____ FEE _____ DATE _____

Michelle Boney
 Analyst's Signature

John A. Alvon
 Owner/Representative Signature, Title

When completed return
to
County of Fresno Dept. of Health
P.O. Box 11800
Fresno, California 93775

APPLICATION
ENVIRONMENTAL HEALTH FEE RECEIPT

Date 3-21-90

Business I.D. No. 119170 NE

1. Business CERTI CONSTRUCTION COMPANY USDA

2. Inspection Site 2221 SOUTH BERRY AVE 453-3000
Street Phone
FRESNO CA 93711
City State Zip

3. Billing address P.O. BOX 1066
Street
VIOLIA CA 95279
City State Zip

4. List all activities the business is to be engage in. (e.g.; Bar, Restaurant, Meat Market, Pool, etc.)
REMOVAL OF 1-25- U.S.T AT ONE SITE
UBST

5. Number of units, square footage, or seating capacity.

6. Date of business commencement 3-21-90

7. If this business is seasonal or temporary, how many months of the year will it operate? _____

8. Name of applicant JENNIFER A FURR JR

9. Signature Jennifer A Furr Jr

NOTICE: Notify the Environmental Health Department of any change in the type of business activity, name or ownership by calling 445-3357. Failure to notify the Environmental Health Department may result in late fee penalties and/or referral of past due account to a collections agency.

FOR OFFICE USE ONLY

Fee calculated as follows: COST CENTER
1. No. UBST Removal, Units 1 tank, Fee \$102⁰⁰/

Activity _____

2. No. _____, Units _____, Fee _____

Activity _____

3. No. _____, Units _____, Fee _____

Activity _____

Penalty _____

Total 102

FRESNO COUNTY DEPARTMENT OF HEALTH
 ENVIRONMENTAL HEALTH SYSTEM
 P.O. BOX 11867, FRESNO, CALIFORNIA 93721
 TELEPHONE (209) 445-3271
 PERMIT APPLICATION FOR UNDERGROUND STORAGE TANKS

- ABANDONMENT/REMOVAL NEW CONSTRUCTION SUBSURFACE ASSESSMENT/REMIATIO
 ABANDONMENT/IN PLACE REPAIR OR REPLACE PRECISION TEST: DATE _____

SITE INFORMATION:

USDA Site Address 2021 SOUTH PEACH AVE City FRESNO Zip 93711
 Facility Name AGRICULTURE RESEARCH SERVICE Cross Street _____
 Owner/Operator SAME Phone _____
 Mailing Address SAME City _____ Zip _____

CONTRACTOR INFORMATION:

Company CRISP CONSTRUCTION CO
 Address PO BOX 1066
 City VISALIA Phone 734-6381
 Contractor Lic. No./Class 567426

CONSULTANT INFORMATION:

Company ESTIMATING ETS ASSOC
 Address 2527 FRESNO ST 351 Walnut
 City FRESNO Phone 209-722-1111
 Registration Lic. No/Type 49667-6463
 Zip 95380

TANK CLEANING/TRANSPORTER INFORMATION:

Company BAKERSFIELD PACIFIC OIL
 Address 2104 KENT DR
 City BAKERSFIELD Phone 805-871-3683
 Waste Transporter ID No. _____
 Tank Destination _____
 Rinsate Manifested Tank Manifested

PRECISION TESTER INFORMATION:

Company _____
 Address _____
 City _____ Phone _____
 Type of Test _____
 Tester Name _____
 CA State Cert. No. _____

TANK INFORMATION

PERMIT #	SIZE	PRODUCT	AGE OF TANK	PREVIOUSLY STORED MATERIAL
<u>1684</u>	<u>250</u>	<u>W/L</u>	<u>?</u>	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

DESCRIBE WORK TO BE PERFORMED

REMOVE & DISPOSE OF 1-250 GASOLINE TANK

(Use Reverse Side if Necessary)

OFFICIAL USE ONLY

Site I.D. 89181-1 CT _____ APN _____ Fee \$ _____ Application Date 3-21-90

NOTE: Permit expires ninety (90) days after the application date. The applicant has received, understands, and will comply with the attached conditions of this permit and any other State and local regulations.

Lancelot Leitold
 Approved by:

JOHNNY A. ENOS JR
 Applicant Name (Please Print)

Johnny A. Enos Jr ESTIM
 Applicant Signature/Title

GUIDELINES FOR INSPECTION OF PUBLIC RECORDS

All public records of the Fresno County Department of Health, Environmental Health System, which are subject to disclosure under the provisions of the California Public Records Act (Government Code Sections 6250 - 6260), are open to inspection by the public during normal office hours of the office at which those records are located. However, certain records are confidential, and the Department may not release these records to the public. They include all complaint files, inter-office memos, all material in "Confidential" air pollution folders, personnel records, well logs, field notes and preliminary drafts for use by the Department.

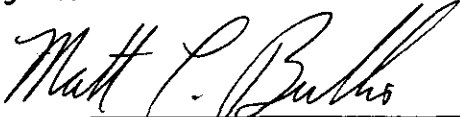
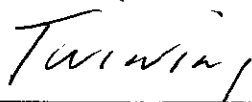
Any person who wishes to inspect a public record may present his request to the clerk on duty where the public record is located. A particular record, or if not known, the particular type or class of records, may be requested.

No record may be removed from the office unless subpoenaed. Copies can be made at a charge of 10¢ for each original copy for copies 1 - 8. A charge of .05¢ per copy will be made on copies of 9 or more. The requestor may reproduce a copy by his own means, subject to the limitations that no record is removed from the office and that the record is not damaged by the reproduction equipment.

The Department may temporarily deny or restrict inspection of public records under the following circumstances:

1. Records are at the particular time required by staff or other officials in performing their duties.
2. Supervision of inspection is at that particular moment not possible.
3. Other members of the public are waiting to inspect those records.


REQUEST TO INSPECT PUBLIC RECORDS

Signature	Representing	Date
		3/2/80

I have read the Department's guidelines and wish to inspect the following public record.

Complete Description:

*Review of files
2021 S Peck*

To be completed by Departmental Office:	
<input checked="" type="checkbox"/> Approved <input checked="" type="checkbox"/> Inspected 	<input type="checkbox"/> Disclosure of requested record is prohibited

Departmental Representative	Date
	3/2/80



September 18, 1989

Department of Health

George E. Fret
Director

U. S. D. A.
800 Buchanan Street
Albany, California 94710
Attn: Sharon Guthrie

Subject: Certification of Response Actions
Location: 2021 South Peach Avenue

Based on information currently and actually known to the County of Fresno Health Department:

We have determined that all appropriate response actions have been completed, all acceptable remedial practices have been implemented, and no further investigation, remedial or removal action, or monitoring is required with regard to a release of hazardous waste or substances from one or more underground storage tanks located at the above site.

XXXXXX And based on a site assessment, we have determined that the above site poses no significant threat to public health, welfare, or the environment with regard to a release of hazardous waste or substances from one or more underground storage tanks located at the site. Therefore, implementation of any further removal or remedial measures is not necessary at this time. The site should now be properly closed, including backfilling as necessary.

If any tank has been abandoned in-place the existence of the tank(s) and fittings must be recorded on the property deed.

Nothing in the above determination shall constitute or be construed as a satisfaction or release from liability for any conditions or claims arising as a result of past, current, or future operations at this site. Nothing in this determination is intended or shall be construed to limit the rights of any parties with respect to claims arising out of or relating to deposit or disposal at any other location of substances removed from the site. Nothing in this determination is intended or shall be construed to limit or preclude the County or any other agency from taking any action authorized by law, including, but not limited to, any previous directives, you may be required to take further actions as are necessary to protect public health and the environment.

Please call me at (209) 445-3271 if you have any questions.

Respectfully,

A handwritten signature in cursive script that reads "Ed Yamamoto".

Ed Yamamoto
Environmental Health Analyst
Environmental Health System

EY:gfg

cc: Crisp Construction

When completed return
to
County of Fresno Dept. of Health
P.O. Box 11800
Fresno, California 93775

Patch 6
11/27/19

APPLICATION
ENVIRONMENTAL HEALTH FEE RECEIPT

LA
19270
UGST ID # 89181-1

Business I.D. No. _____

Date _____

1. Business CRISP Const 3850 Cherry Visalia

2. Inspection Site 2021 S. PEACH FRESNO 93727
Street Phone City State

3. Billing address _____
Street City State Zip 93277

4. List all activities the business is to be engage in. (e.g.; Bar, Restaurant, Meat Market, Pool, etc.)
REMOVAL OF FANKS
YAMH4-A

5. Number of units, square footage, or seating capacity. 1 \$102⁰⁰/_{xx}

6. Date of business commencement _____

7. If this business is seasonal or temporary, how many months of the year will it operate? _____

8. Name of applicant _____

9. Signature _____

NOTICE: Notify the Environmental Health Department of any change in the type of business activity, name or ownership by calling 445-3357. Failure to notify the Environmental Health Department may result in late fee penalties and/or referral of past due account to a collections agency.

FOR OFFICE USE ONLY

Fee calculated as follows: COST CENTER 4890

1. No. 1-550, Units _____, Fee 102⁰⁰/_{xx}
Activity _____

2. No. _____, Units _____, Fee _____
Activity _____

3. No. _____, Units _____, Fee _____
Activity _____

Penalty _____
Total 102⁰⁰/_{xx}

County of
FRESNO
Department of Health

POSTING INFORMATION	
BATCH #	7
BATCH DATE	11/27/89
TRANSFER TO	
TRANSFER AMOUNT	

RECEIPT	PAYMENT DATE			REC'D BY	STAFF NO.
	MO	DA	YR		
	08	18	89	CW	003117

PAYEE NAME		
Underground Storage Tank		
LAST NAME	FIRST NAME	MIDDLE NAME

PAYOR NAME		PAID BY	COST CENTER
Civic Court			
LAST NAME	FIRST NAME	MIDDLE NAME	

CHECK OR MONEY ORDER NUMBER	AMOUNT RECEIVED	PAYMENT MODE	METHOD RECEIVED
5423 90-8-7/1222	91091102	2	3
		1. CASH 2. CHECK 3. MONEY ORDER 4. CREDIT CARD	1. U.S. MAIL 2. INTEROFFICE 3. PERSON

Inspection Site ID# 89181-1
205 S. Peach
Removal of Tank

RECEIPT NO
No 12711



The Twining Laboratories, Inc.

Since 1898

Geotechnical and Environmental Consultants • Engineering and Chemical Laboratories

September 6, 1989

TL 489-0115-11

For:

Crisp Construction
P.O. Box 1066
Visalia, CA 93279

RECEIVED
SEP 12 1989

Attn: Mr. Rich Warren **ENVIRONMENTAL HEALTH SYSTEM
FRESNO COUNTY DEPT. OF HEALTH**

Project:

U.S.D.A
2021 South Peach
Fresno, California

Subject:

Underground Storage Tank
Removal of A Soil Sample

Dear Mr. Warren:

This report presents the analytical result of one soil sample retrieved following the removal of one underground storage tank at the above-referenced project location. Attached to the report are a site map and a copy of the chain-of-custody documentation.

The scope of our testing was initiated per the verbal authorization of Mr. Rich Warren of Crisp Construction.

SCOPE OF WORK

Services performed by The Twining Laboratories, Inc., consisted of the sampling and analysis of one soil sample retrieved from the former location of one 500 gallon underground storage tank.

The tank was very rusty and pitted. No holes were visible in the tank. Odor was present in the excavation.

The storage tank had a product history of gasoline. The approximate location of the former tank is presented on Drawing No. 1. The project site is located at 2021 South Peach in Fresno, California.

2527 Fresno Street • P.O. Box 1472
Fresno, California 93716 • (209) 268-7021

1405 Granite Lane, Suite 1
Modesto, California 95351 • (209) 523-0994

9401 West Goshen Avenue
Visalia, California 93291 • (209) 651-2190

3701 Pegasus Drive, Suite 124
Bakersfield, California 93308 • (805) 393-5088

U.S.D.A.
2021 SOUTH PEACH
FRESNO, CALIFORNIA

TL 489-0115-11
PAGE 2

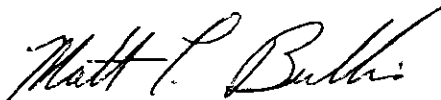
SAMPLING PROCEDURE

The soil sample was obtained by Mr. Ray Kurz of the Twining Laboratories, Inc. on August 22, 1989. The soil sample was retrieved from the depth of approximately two feet below the bottom of the tank excavation. The location and depth was specified by Mr. Edward Yamamoto of the Fresno County Environmental Health Department. The soil sample was retrieved using brass sleeves, then capped with aluminum foil, then plastic caps and immediately packed in ice for shipment to our laboratory. The sample was clearly identified and banded with shipping seals. The sample retrieved in the field was brought to our facility in Fresno, California on August 22, 1989. The results of the sample analysis is presented in the attached table.

If you should have any questions regarding the information contained herein, please do not hesitate to contact our office.

Sincerely,

THE TWINING LABORATORIES, INC.



Matthew L. Bullis, RCE
Supervisor
Environmental Engineering Department

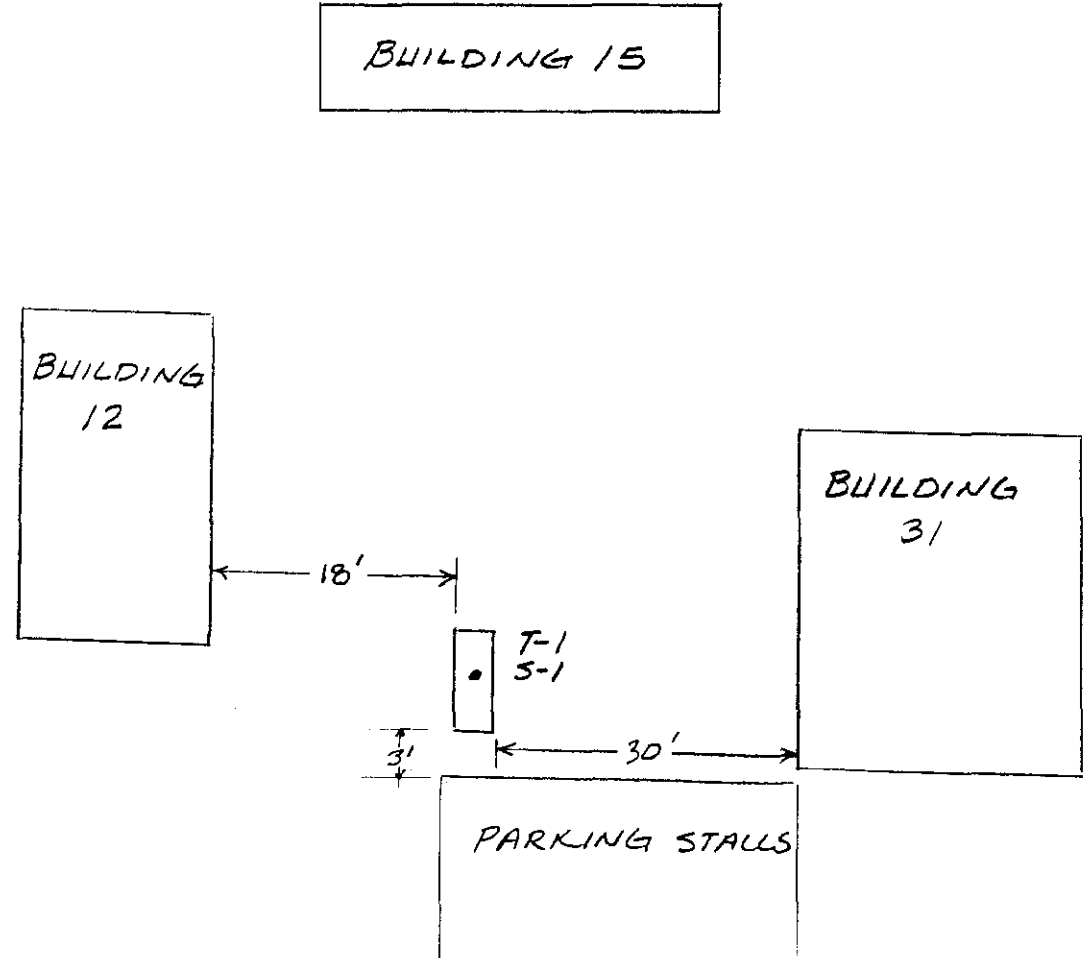
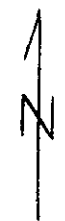
MLB/rb

2c: Herewith
1c: Fresno County Environmental Health
Department, Attn: Mr. Edward Yamamoto

The Twining Laboratories, Inc.

Fresno Modesto Visalia Bakersfield

UNDERGROUND STORAGE TANK REMOVAL
Depth to bottom of tank 4.5'
Depth to sample: 7.5'
Volume of tank: 550 GAL.
Tank dimensions: 4'x6'
Material stored in tank: GASOLINE



SITE PLAN

U.S.D.A. FACILITIES
2021 S PEACH
FRESNO, CA.

SCALE: NTS	DATE: 8/22/89
DRAWN BY: MLB	APPROVED BY: MLB
	DRAWING No.



The Twining
Laboratories, Inc.

FRESNO/MODESTO/VISALIA/BAKERSFIELD



The Twining Laboratories, Inc.

Since 1898

Geotechnical and Environmental Consultants • Engineering and Chemical Laboratories

REPORT DATE : August 30, 1989
EXAMINATION NO.: 689-4365

ENGINEER: Matt Bullis

CLIENT : Crisp Construction
P.O. Box 1066
Visalia, CA 93277


PROJECT : U.S.D.A.
2021 S. Peach Street
Fresno, California

DATE SAMPLED : 08-22-89 by R. Kurz


DATE RECEIVED: 08-22-89 at 1520 from R. Kurz

In accordance with your instructions, the samples submitted were analyzed for the components specified. Results are enclosed on the following pages. If you have any questions concerning the analysis or results, please contact us. Thank you for letting us serve you.

THE TWINING LABORATORIES, INC.


Lynn Jaeger
Manager, Chemistry Division

LJ:mrd
lc:herewith

 2527 Fresno Street • P.O. Box 1472
Fresno, California 93716 • (209) 268-7021

1405 Granite Lane, Suite 1
Modesto, California 95351 • (209) 523-0994

9401 West Goshen Avenue
Visalia, California 93291 • (209) 651-2190

3701 Pegasus Drive, Suite 124
Bakersfield, California 93308 • (805) 393-5088

REPORT DATE : August 30, 1989
EXAMINATION NO.: 689-4365

ENGINEER: Matt Bullis
page 1 of 1

CLIENT : Crisp Construction
P.O. Box 1066
Visalia, CA 93277

PROJECT : U.S.D.A.
2021 S. Peach Street
Fresno, California

DATE SAMPLED : 08-22-89 by R. Kurz
DATE RECEIVED: 08-22-89 at 1520 from R. Kurz
DATE PREPARED: 08-24-89
DATE ANALYZED: 08-25-89
ANALYST : S. Singh

SAMPLE TYPE : Soil
CLIENT IDENTIFICATION: S-1, T-1 550 Gal Gas 1455

METHOD: EPA 5020, 8020 and modified 8015

CONSTITUENT	RESULT	UNITS	MDL
Benzene	ND	mg/kg	0.05
Toluene	ND	mg/kg	0.05
Ethylbenzene	ND	mg/kg	0.05
Xylenes	ND	mg/kg	0.20
TH-1	1.4	mg/kg	0.5

UNITS: Milligram per kilogram

TH-1: Total Hydrocarbons (standard reference: gasoline)

MDL: Method Detection Limit
ND : None Detected

The Twining Laboratories, Inc.

Fresno Modesto Visalia Bakersfield

Date: 8-22-89

THE TWINING LABORATORIES, INC.
2527 Fresno Street, Fresno, CA 93721
(209) 268-7021

Page 1 of 1

1689-14365

Chain-of-Custody and Analysis Request Record

Project Name: Cripp Construction Project No.: _____ Project Manager: Math B
Sampler: Ray Kury Company: Twining Lab Inc Phone: 268-7021 Del. By: Ray Kury

SEND REPORT TO:

Company: Cripp Construction
Address: P.O. Box 1066
Visalia Ca
Contact Name: Lisa Warren
Phone: 734-6381

SAMPLING LOCATION OR BILLING (Circle One):

Company: U.S.D.A
Address: 2021 - S - Beach st
Fresno, Ca
Contact Name: _____
Phone: _____

EXPECTED TURNAROUND:

Rush
 Routine
(Specify Time: _____)

COPIES TO: Fresno County - Ed yarrick

Analysis Request

Lab* ID #	Client Sample ID #	Sample Description	Date/Time Sampled	Analysis Requested	Number of Containers Per Sample
	<u>S-1- T-1-550 Gal Spc</u>	<u>SOIL</u>	<u>8-22-89</u>	<u>15 TX & E. TCH Spc</u>	<u>1</u>

*Lab use only.

1. Raymond Plym Kury Relinquished By Twining Lab Inc Affiliation 8-22-89 10:20 AM Date/Time
 2. _____ Received By _____ Affiliation _____ Date/Time _____
 3. J Schumler Received By TL Affiliation 8-22-89 3:45 PM Date/Time
 4. _____ Received in Lab By _____ Affiliation _____ Date/Time _____

FRESNO COUNTY DEPARTMENT OF HEALTH
 ENVIRONMENTAL HEALTH SYSTEM
 P.O. BOX 11867, FRESNO, CA 93775
 TELEPHONE (209) 445-3271

ABANDONMENT INSPECTION REPORT

A. SITE INFORMATION:

Site Address 2021 S. Peach City Fresno Zip _____
 Facility Name U.S.D.A. Ag. Research Ctr. APN _____
 Owner/Operator Rep. Sharon Guthrie Phone 415 559-6019
 Mailing Address 300 Buchanan St. City Albany Zip _____

B. CONTRACTOR INFORMATION:

Company CRISP Const. Contact Person Mark Crisp Phone 621-4727
 Mailing Address 3355 Cherry St. City Visalia Zip _____
 State Contractor License No. 472335 Class A C-61

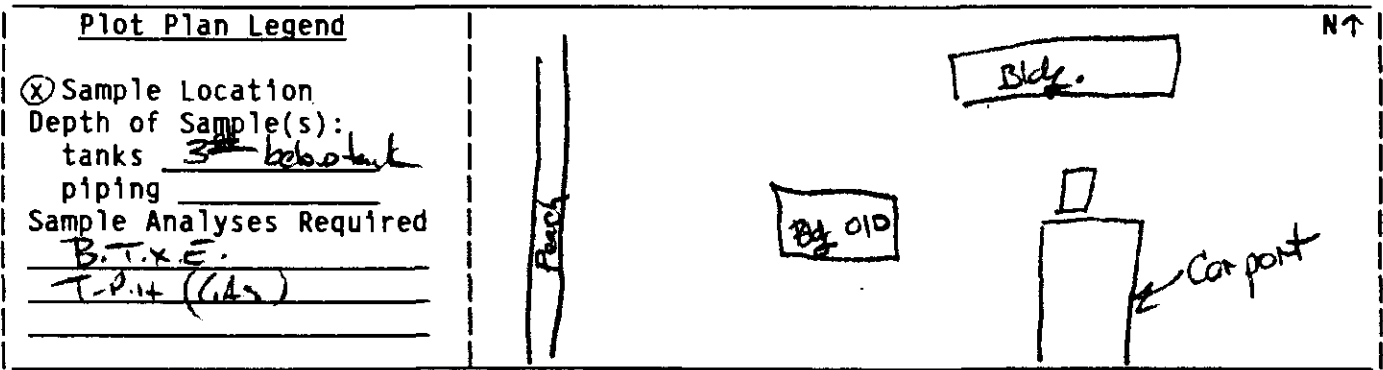
C. INSPECTION INFORMATION:

Abandon In Place _____ Removal X

Tank #/Tank Size 1. 1318 / 550 2. / 3. /
 4. / 5. / 6. /

	Y/N	Comments
Tank(s) has been completely emptied prior to removal	<u>Y</u>	<u>E.Y.</u>
Tank(s) has been cleaned and waste manifested	<u>Y</u>	<u>E.Y.</u>
Tank(s) properly purged / LEL below 5%	<u>Y</u>	<u>E.Y.</u>
Piping removed	<u>Y</u>	<u>E.Y.</u>
Backfill method approved for abandonment in place		
Groundwater/Product in excavation (Circle One)	<u>N.</u>	<u>E.Y.</u>

Soil discoloration - note location(s): Slight discoloration + ODOOR
 General tank condition (describe): Rust + Pitted
 CONTRACTOR CERTIFIES PROPER DECONTAMINATION OF TANKS HAS BEEN PERFORMED:
 Additional Comments: Send Waste Manifest to the dept. (copy) etc



OFFICIAL USE ONLY
 Site I.D. 89181 CT _____ Fee _____ Date 7/22/09

E. Yamamoto
 Analyst's Signature

John [Signature]
 Owner/Operator Signature



FORM 'A':
SITE

UNDERGROUND STORAGE TANK PROGRAM
FACILITY/SITE, INFORMATION and/or PERMIT APPLICATION

COMPLETE THIS FORM FOR EACH FACILITY/SITE

NO. 13381

MARK ONLY ONE ITEM	<input checked="" type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input type="checkbox"/> 7 PERMANENTLY CLOSED SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY SITE CLOSURE	

I. FACILITY/SITE INFORMATION & ADDRESS — (MUST BE COMPLETED)

FACILITY/SITE NAME <i>USDA Agriculture Research Service</i>		CARE OF ADDRESS INFORMATION		
ADDRESS <i>2021 S. Pascal</i>		NEAREST CROSS STREET <i>Easton</i>	<input checked="" type="checkbox"/> Box to indicate <input type="checkbox"/> CORPORATION <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> STATE AGENCY <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL AGENCY <input checked="" type="checkbox"/> FEDERAL AGENCY <input type="checkbox"/> COUNTY AGENCY	
CITY NAME <i>Fresno</i>	STATE CA	ZIP CODE	SITE PHONE #, WITH AREA CODE	
TYPE OF BUSINESS: <input type="checkbox"/> 1 GAS STATION <input type="checkbox"/> 2 DISTRIBUTOR <input type="checkbox"/> 3 FARM <input type="checkbox"/> 4 PROCESSOR <input checked="" type="checkbox"/> 5 OTHER	<input checked="" type="checkbox"/> Box if INDIAN RESERVATION or TRUST LANDS <input type="checkbox"/>		EPA ID #	# of TANKS AT THIS SITE <i>1</i>
EMERGENCY CONTACT PERSON (PRIMARY)		EMERGENCY CONTACT PERSON (SECONDARY)		
DAYS: NAME (LAST, FIRST) <i>Guthrie Sharon</i>		PHONE # WITH AREA CODE		DAYS: NAME (LAST, FIRST)
NIGHTS: NAME (LAST, FIRST)		PHONE # WITH AREA CODE		PHONE # WITH AREA CODE

II. PROPERTY OWNER INFORMATION & ADDRESS — (MUST BE COMPLETED)

NAME <i>U.S.O.A.</i>		CARE OF ADDRESS INFORMATION		
MAILING or STREET ADDRESS <i>500 Buchanan St</i>		<input checked="" type="checkbox"/> Box to indicate <input type="checkbox"/> CORPORATION <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> STATE AGENCY <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL AGENCY <input checked="" type="checkbox"/> FEDERAL AGENCY <input type="checkbox"/> COUNTY AGENCY		
CITY NAME <i>Albany</i>	STATE CA	ZIP CODE <i>94706</i>	PHONE #, WITH AREA CODE	

III. TANK OWNER INFORMATION & ADDRESS — (MUST BE COMPLETED)

NAME <i>Same as II</i>		CARE OF ADDRESS INFORMATION		
MAILING or STREET ADDRESS		<input checked="" type="checkbox"/> Box to indicate <input type="checkbox"/> CORPORATION <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> STATE AGENCY <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> FEDERAL AGENCY <input type="checkbox"/> COUNTY AGENCY		
CITY NAME	STATE	ZIP CODE	PHONE #, WITH AREA CODE	

IV. LEGAL NOTIFICATION AND BILLING ADDRESS

CHECK ONE (1) BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR BOTH LEGAL NOTIFICATION AND BILLING: I. II. III.

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

APPLICANT'S NAME (PRINTED & SIGNATURE)	DATE
--	------

LOCAL AGENCY USE ONLY

COUNTY # <i>10</i>	JURISDICTION #	AGENCY #	FACILITY ID #	# of TANKS at SITE <i>0001</i>
CURRENT LOCAL AGENCY FACILITY ID # <i>39181</i>		APPROVED BY NAME <i>E. J. Jaramila</i>		PHONE # WITH AREA CODE <i>(209) 255-3333</i>
PERMIT NUMBER	PERMIT APPROVAL DATE	PERMIT EXPIRATION DATE		<i>415-3211</i>
LOCATION CODE	CENSUS TRACT # <i>051401</i>	SUPERVISOR-DISTRICT CODE	BUSINESS PLAN FILED YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE FILED
CHECK #	PERMIT AMOUNT	SURCHARGE AMOUNT	FEE CODE	RECEIPT #
BY:				

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE TANK PERMIT FORM 'B' APPLICATION(S), UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.
FORM A (3-2-88)

STATE OF CALIFORNIA

WATER RESOURCES CONTROL BOARD

FORM 'B': TANK

UNDERGROUND STORAGE TANK PROGRAM TANK PERMIT APPLICATION INFORMATION

COMPLETE A SEPARATE FORM WITH THE FOLLOWING INFORMATION FOR EACH TANK.



No. 25582

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input type="checkbox"/> 7 PERMANENTLY CLOSED TANK
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input checked="" type="checkbox"/> 8 TANK REMOVED

FACILITY/SITE NAME WHERE TANK IS INSTALLED: USDA Agriculture Research Service FARM TANK - YES NO

I. TANK DESCRIPTION COMPLETE ALL ITEMS - IF UNKNOWN - SO SPECIFY

A. OWNERS TANK ID # <u>unknown</u>	B. MANUFACTURED BY: <u>unknown</u>
C. YEAR INSTALLED <u>unknown</u>	D. TANK CAPACITY IN GALLONS: <u>55 gal</u>

II. TANK CONTENTS IF (A.1), IS MARKED, COMPLETE ITEM C. IF (A.1), IS NOT MARKED, COMPLETE ITEM D.

A. <input checked="" type="checkbox"/> 1 MOTOR VEHICLE FUEL <input type="checkbox"/> 2 PETROLEUM <input type="checkbox"/> 3 CHEMICAL PRODUCT <input type="checkbox"/> 4 OIL <input type="checkbox"/> 5 HAZARDOUS <input type="checkbox"/> 80 EMPTY <input type="checkbox"/> 95 UNKNOWN	B. <input checked="" type="checkbox"/> 1 PRODUCT <input type="checkbox"/> 2 WASTE	C. <input type="checkbox"/> 1 UNLEADED <input checked="" type="checkbox"/> 2 LEADED <input type="checkbox"/> 3 DIESEL <input type="checkbox"/> 4 GASAHOL <input type="checkbox"/> 5 JET FUEL <input type="checkbox"/> 6 AVIATION GAS <input type="checkbox"/> 7 METHANOL <input type="checkbox"/> 99 OTHER (DESCRIBE IN ITEM D, BELOW)
D. IF NOT MOTOR VEHICLE FUEL, ENTER NAME OF HAZARDOUS SUBSTANCE STORED & C.A.S. #		C.A.S. #:

III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOX A, B, C, & D

A. TYPE OF SYSTEM <input type="checkbox"/> 1 DOUBLE WALLED <input type="checkbox"/> 3 SINGLE WALLED WITH EXTERIOR LINER <input type="checkbox"/> 95 UNKNOWN <input checked="" type="checkbox"/> 2 SINGLE WALLED <input type="checkbox"/> 4 SECONDARY CONTAINMENT <input type="checkbox"/> 99 OTHER	B. TANK MATERIAL <input checked="" type="checkbox"/> 1 STEEL/IRON <input type="checkbox"/> 2 STAINLESS STEEL <input type="checkbox"/> 3 FIBERGLASS <input type="checkbox"/> 4 STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC <input type="checkbox"/> 5 CONCRETE <input type="checkbox"/> 6 POLYVINYL CHLORIDE <input type="checkbox"/> 7 ALUMINUM <input type="checkbox"/> 8 100% METHANOL COMPATIBLE FRP <input type="checkbox"/> 9 BRONZE <input type="checkbox"/> 10 GALVANIZED STEEL <input type="checkbox"/> 95 UNKNOWN <input type="checkbox"/> 99 OTHER	C. INTERIOR LINING <input type="checkbox"/> 1 RUBBER LINED <input type="checkbox"/> 2 ALKYD LINING <input type="checkbox"/> 3 EPOXY LINING <input type="checkbox"/> 4 PHENOLIC LINING <input type="checkbox"/> 5 GLASS LINING <input type="checkbox"/> 6 UNLINED <input checked="" type="checkbox"/> 95 UNKNOWN <input type="checkbox"/> IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> 99 OTHER	D. CORROSION PROTECTION <input type="checkbox"/> 1 POLYETHYLENE WRAP <input type="checkbox"/> 2 TAR OR ASPHALT <input type="checkbox"/> 3 VINYL WRAP <input type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC <input type="checkbox"/> 5 CATHODIC PROTECTION <input type="checkbox"/> 91 NONE <input checked="" type="checkbox"/> 95 UNKNOWN <input type="checkbox"/> 99 OTHER
--	--	--	--

IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND, U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE A <input checked="" type="radio"/> 1 SUCTION A U <input type="radio"/> 2 PRESSURE A U <input type="radio"/> 3 GRAVITY A U <input type="radio"/> 91 NONE A U <input type="radio"/> 95 UNKNOWN A U <input type="radio"/> 99 OTHER	B. CONSTRUCTION A <input checked="" type="radio"/> 1 SINGLE WALLED A U <input type="radio"/> 2 DOUBLE WALLED A U <input type="radio"/> 3 LINED TRENCH A U <input type="radio"/> 91 NONE A U <input type="radio"/> 95 UNKNOWN A U <input type="radio"/> 99 OTHER	C. MATERIAL A <input checked="" type="radio"/> 1 STEEL/IRON A U <input type="radio"/> 2 STAINLESS STEEL A U <input type="radio"/> 3 POLYVINYL CHLORIDE (PVC) A U <input type="radio"/> 4 FIBERGLASS PIPE A U <input type="radio"/> 91 NONE A U <input type="radio"/> 5 ALUMINUM A U <input type="radio"/> 6 CONCRETE A U <input type="radio"/> 7 STEEL CLAD W/FRP A U <input type="radio"/> 8 100% METHANOL COMPATIBLE FRP A U <input type="radio"/> 9 GALVANIZED STEEL A U <input type="radio"/> 95 UNKNOWN A U <input type="radio"/> 99 OTHER
--	---	---

V. LEAK DETECTION SYSTEM CIRCLE P FOR PRIMARY, OR S FOR SECONDARY, A PRIMARY LEAK DETECTION SYSTEM MUST BE CIRCLED.

P S <input type="checkbox"/> 1 VISUAL CHECK	P S <input type="checkbox"/> 2 INVENTORY RECONCILIATION	P S <input type="checkbox"/> 3 VADOSE WELLS	P S <input type="checkbox"/> 4 ELECTRONIC MONITOR	P S <input type="checkbox"/> 5 GROUND WATER MONITORING WELLS	P S <input type="checkbox"/> 99 OTHER
P S <input type="checkbox"/> 6 PRECISION TESTING	P S <input type="checkbox"/> 7 PRESSURE TESTING	<input checked="" type="radio"/> P <input checked="" type="radio"/> S 91 NONE	P S <input type="checkbox"/> 95 UNKNOWN		

VI. INFORMATION ON TANK PERMANENTLY CLOSED IN PLACE

1. ESTIMATED DATE LAST USED (MO/YR)	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING IN GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? <input type="checkbox"/> YES <input type="checkbox"/> NO
-------------------------------------	---	--

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

APPLICANT'S NAME (PRINTED & SIGNATURE)	DATE
--	------

LOCAL AGENCY USE ONLY

COUNTY # <u>10</u>	JURISDICTION #	AGENCY #	FACILITY ID #	TANK ID #
CURRENT LOCAL AGENCY FACILITY ID #	APPROVED BY NAME <u>37151</u>		PHONE # WITH AREA CODE <u>(209) 445 3271</u>	
PERMIT NUMBER	PERMIT APPROVAL DATE	PERMIT EXPIRATION DATE		
CHECK #	PERMIT AMOUNT	SURCHARGE AMT.	FEE CODE	RECEIPT #
				BY:

County of
FRESNO
Department of Health

POSTING INFORMATION	
BATCH #	
BATCH DATE	
TRANSFER TO	
TRANSFER AMOUNT	

RECEIPT	PAYMENT DATE			REC'D BY	STAFF NO.
	MO	DA	YR		
	02	18	89	CW	0013117

PAYEE NAME		
<i>Underground Storage Tank</i>		
LAST NAME	FIRST NAME	MIDDLE NAME

PAYOR NAME			PAID BY	COST CENTER
<i>Crisp Const</i>			1. MEDICARE 2. MEDI-CAL 3. INSURANCE 4. PRIVATE PAY	<i>418910</i>
LAST NAME	FIRST NAME	MIDDLE NAME		

CHECK OR MONEY ORDER NUMBER	AMOUNT RECEIVED	PAYMENT MODE	METHOD RECEIVED
<i>5428 90-897/1222</i>	<i>91091102 2.0</i>	1. CASH 2. CHECK 3. MONEY ORDER 4. CREDIT CARD	1. U.S. MAIL 2. INTEROFFICE 3. PERSON
		<i>2</i>	<i>3</i>

<i>Inspection Site ID# 89181-1</i>	
<i>2021 S. Peach</i>	
<i>Removal of Tank</i>	
RECEIPT NO	
<i>NO 12711</i>	

When completed return
to
County of Fresno Dept. of Health
P.O. Box 11800
Fresno, California 93775

**APPLICATION
ENVIRONMENTAL HEALTH FEE RECEIPT**

110724 #7057-1

Business I.D. No. _____

Date _____

1. Business Auto Const 2500 1st St, Fresno

2. Inspection Site 2091 S Peach Fresno
Street Phone

City State Zip

3. Billing address _____
Street

City State Zip

4. List all activities the business is to be engage in. (e.g.; Bar, Restaurant, Meat Market, Pool, etc.)

Removal of tanks

5. Number of units, square footage, or seating capacity.

1

6. Date of business commencement _____

7. If this business is seasonal or temporary, how many months of the year will it operate? _____

8. Name of applicant _____

9. Signature _____

NOTICE: Notify the Environmental Health Department of any change in the type of business activity, name or ownership by calling 445-3357. Failure to notify the Environmental Health Department may result in late fee penalties and/or referral of past due account to a collections agency.

FOR OFFICE USE ONLY

Fee calculated as follows: COST CENTER 4070

1. No. 1, Units _____, Fee _____

Activity _____

2. No. _____, Units _____, Fee _____

Activity _____

3. No. _____, Units _____, Fee _____

Activity _____

Penalty _____

Total _____

FRESNO COUNTY DEPARTMENT OF HEALTH
 ENVIRONMENTAL HEALTH SYSTEM
 P.O. BOX 11867, FRESNO, CA 93775
 TELEPHONE (209) 445-3271

~~Compass State Union~~
 3330 E. Pearl

PERMIT TO PERMANENTLY
 ABANDON UNDERGROUND STORAGE TANK(S) *South peach*
 2021
~~Bakersfield Ave~~

A. SITE INFORMATION:

Site Address USDA Agricultural Research Sta. City FRESNO Zip 93775
 Facility Name Same APN -415-
 Owner/Operator Rep Sharon Guthrie Phone 559 6019
 Mailing Address 800 Buchanan Street City ALBANY Zip 94710

B. CONTRACTOR INFORMATION:

Company CRISP Const Contact Person Gilbert Mark Crisp Phone 627-4727
 Mailing Address 3850 Cherry Ave City Visalia Zip 93277
 State Contractor License No. 478335 Class A C61

C. PERMIT INFORMATION:

Abandon In Place _____ Abandon/Remove X Removal Date 22 Aug ^{1300h.}
 Consultant Name Twinnings Laboratory Tank Destination AMR Ontario Cal.
 Tank Cleaned/Rinsate Manifested? CRISP Const Tank Manifested? Bakersfield Pac oil
Gibson oil Bakersfield

PERMIT #	SIZE	PRODUCT	AGE OF TANK	PREVIOUSLY STORED MATERIAL
<u>89181</u> <u>1318</u>	<u>550 gal</u>	<u>Fuel tank</u>	<u>15 yrs</u>	<u>Fuel</u>
	<u>550 gal</u>	<u>Fuel tank</u>	<u>15 yrs</u>	<u>Fuel</u>

PLEASE REVIEW REVERSE SIDE OF FORM FOR CONDITIONS OF ABANDONMENT

Owner: _____ Date: _____
 Contractor: _____ Date: _____
 Destination: _____ Date: _____

OFFICIAL USE ONLY

Site I.D. 89181 CT _____ Fee _____ Date 8-18-89

Lorely Sei Vol.
 Analyst's Signature

Owner/Operator Signature

NOTE: PERMIT EXPIRES NINETY (90) DAYS AFTER THE APPLICATION DATE

ISSUE ALERT

la

170540
47351
6710

HAZARDOUS MATERIAL RELEASE

Immediate Notification of Board of Supervisors Required

DATE: 7/25/95 XX NEW INCIDENT
TIME: 2:00 p.m. UPDATE

ISSUE: SOIL CONTAMINATION FROM PETROLEUM PRODUCTS DUE TO UNDERGROUND STORAGE TANKS.

LOCATION: 2021 South Peach COMMUNITY: Fresno

NAME, ADDRESS, PHONE: USDA Agriculture Research, 800 Buchanan, Albany, CA 94710 Phone: (415) 559-6019.

HEALTH DEPT. PROGRAM: UNDERGROUND STORAGE TANK SECTION.

ISSUE DESCRIPTION: SUBSURFACE ANALYSIS REVEALED THE PRESENCE OF PETROLEUM CONSTITUENTS IN SOIL.

POTENTIAL RISKS AND HEALTH EFFECTS: BENZENE, A CONSTITUENT OF PETROLEUM PRODUCTS IS CURRENTLY ON THE LIST OF PROP. 65 CHEMICALS AS A KNOWN CARCINOGEN.

COMMUNITY AFFECTED: Fresno, CA

Date Index Case Diagnosed: N/A
Number of People Involved: N/A
Additional Information: N/A

TIME LINE: PRELIMINARY INVESTIGATION CONDUCTED AT THE ABOVE SITE SHOWED SOIL CONTAMINATION. FURTHER INVESTIGATION WILL BE REQUIRED.

PLANNED INTERVENTION AND DEPARTMENT ACTIVITIES: OUR OFFICE WILL REVIEW FUTURE SITE INVESTIGATIONS AND DIRECT FURTHER ASSESSMENT WORK IF NEEDED.

OTHER PERTINENT INFORMATION: SCOPE OF FUTURE SUBSURFACE INVESTIGATION MAY BE NECESSARY TO DETERMINE POTENTIAL GROUNDWATER IMPACTS.

OTHER DEPARTMENTS OR AGENCIES INVOLVED: THE REGIONAL WATER QUALITY CONTROL BOARD WILL BE ADVISED VIA STATUS REPORTS.

PUBLIC INFORMATION & INQUIRY:

Agency: Fresno County Community Health Dept. Phone: (209) 445-3271

PERSON REPORTING: David Van Dyne STAFF ASSIGNED: Jim Armstrong

PERSON INITIATING ALERT: Environmental Health System Director

DISTRIBUTION - PLEASE HAND DELIVER

X Director X Director/Mental Health X Others:
X Health Officer X Asst. Dir./Support Services
X Director/Comm. Health X E.H. System Director

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.		
REPORT DATE 4/11/95		CASE #		SIGNED _____ DATE _____		
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT DAVID VAN DYNE		PHONE (209) 445-5271		SIGNATURE David Van Dyne	
	REPRESENTING <input checked="" type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME FRESNO COUNTY ENVIRONMENTAL HEALTH SYSTEM			
	ADDRESS 1221 FORTUNA BLVD FRESNO CALIF. 93721					
RESPONSIBLE PARTY	NAME USDA		CONTACT PERSON KING, CLIFFORD		PHONE (209) 433-3007	
	ADDRESS 2021 S BUCHANAN, ALBANY CALIF. 94710					
SITE LOCATION	FACILITY NAME (IF APPLICABLE) USDA AGRICULTURE		OPERATOR KING, CLIFFORD		PHONE (209) 433-3007	
	ADDRESS 2021 S PEACH FRESNO CALIF. COUNTY 93714					
	CROSS STREET BUTLER					
IMPLEMENTING AGENCIES	LOCAL AGENCY FRESNO COUNTY ENVIRONMENTAL HEALTH SYSTEM		AGENCY NAME FRESNO COUNTY ENVIRONMENTAL HEALTH SYSTEM		CONTACT PERSON JIM ARMSTRONG	
	REGIONAL BOARD CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD		AGENCY NAME CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD		CONTACT PERSON JUAN NEONAN	
SUBSTANCES INVOLVED	(1) NAME DIESEL		QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN			
	(2)		<input type="checkbox"/> UNKNOWN			
DISCOVERY/ABATEMENT	DATE DISCOVERED 4/7/95		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> TANK TEST <input checked="" type="checkbox"/> TANK REMOVAL <input type="checkbox"/> OTHER <input type="checkbox"/> NUISANCE CONDITIONS			
	DATE DISCHARGE BEGAN UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input checked="" type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> OTHER			
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 4/5/95					
SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER			
	CASE TYPE <input checked="" type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)					
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input checked="" type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY					
	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO-DEGRADATION (IT) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> OTHER (OT)					
COMMENTS	FRESNO COUNTY COMMUNITY HEALTH DEPARTMENT HAS REQUESTED THE SITE RESPONSIBLE PARTY TO SECURE THE SERVICES OF AN APPROVED ENVIRONMENTAL ENGINEERING CONSULTING FIRM.					

RP

RECEIVED

AUG 28 1995

Environmental Health System
Fresno Co Community Health Dept.



**SOIL EXCAVATION AND
REMEDATION WORKPLAN
FORMER UNDERGROUND STORAGE TANK SITE
USDA AGRICULTURAL RESEARCH SERVICES
2021 SOUTH PEACH AVENUE
FRESNO, CALIFORNIA**

Project No. 014-95132
August 25, 1995

Prepared for:
Kroeker, Inc.
527 West Browning Avenue
Fresno, California 93704-1803
(209) 439-0604

Prepared by:
Krazan & Associates, Inc.
215 West Dakota Avenue
Clovis, California 93612
(209) 348-2200

R.P. = CLIFFORD KING
453-3007

 **Krazan** & ASSOCIATES, INC.

GEOTECHNICAL ENGINEERING • ENVIRONMENTAL ENGINEERING
CONSTRUCTION TESTING AND INSPECTION

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FIGURES (Following Text)

- Figure 1 - Site Vicinity Map
- Figure 2 - Site Map
- Figure 3 - Site Map Showing Proposed Excavations and Soil Sample Locations

APPENDICES

- Appendix "A" - Field and Laboratory Methods
- Appendix "B" - Health and Safety Plan

August 25, 1995

Krazan Project No. 014-95132

**SOIL EXCAVATION AND REMEDIATION WORKPLAN
FORMER UST SITE
USDA AGRICULTURAL RESEARCH SERVICES
2021 SOUTH PEACH AVENUE
FRESNO, CALIFORNIA**

1.0 INTRODUCTION

Results of soil sampling and testing of soils beneath five underground storage tanks (USTs) removed from the subject property located at 2021 South Peach Avenue in Fresno, California, indicated the presence of petroleum hydrocarbons in soil beneath two of the USTs. As a consequence, the current property owner, United States Department of Agriculture (USDA), requested that Kroeker, Inc. (Kroeker), the UST removal contractor, remove the soil containing petroleum hydrocarbons from the two impacted UST locations and dispose of the impacted soil off-site. Kroeker requested that Krazan & Associates, Inc. (Krazan) prepare a Soil Excavation and Remediation Workplan. This Workplan presents the proposed methodologies for the removal and off-site disposal of soil containing fuel oil at the subject property.

2.0 SITE LOCATION AND DESCRIPTION

The subject site is located at 2021 South Peach Avenue, south of the intersection of Butler Avenue and Peach Avenue in Fresno, California (see Figure 1, the Site Vicinity Map). According to the United States Geological Survey 7.5 minute Malaga, California topographic quadrangle map, the subject site is located within the southwest one-quarter of Section 8, Township 14 South, Range 21 East, Mount Diablo Baseline and Meridian.

The site is an USDA facility and is used for agricultural research purposes (see Figure 2, the Site Plan). Structures at the subject site include an office, brick buildings used for agricultural research

purposes, greenhouses, and several sheds. The USTs, consisting of three 300-gallon tanks and two 130-gallon tanks, were used to store heating oil. The approximate locations of the USTs are shown on Figure 2, the Sample Location Map. Single family residences are located on properties to the north, south, east and west of the subject site.

3.0 GEOLOGIC AND HYDROGEOLOGIC SETTING

The topography of the site is relatively level. The project site is located within the San Joaquin Valley, which is situated between the Sierra Nevada and Coast Ranges of California. The San Joaquin Valley comprises the southern portion of the Great Central Valley.

Alluvial fans are the dominant geomorphic feature in the Fresno area. The project site lies within the lower portion of a compound alluvial fan of intermittent streams north of the Kings River, and is underlain by recent alluvial fan deposits. The alluvial fan deposits underlying Fresno form the groundwater aquifer. Groundwater flow has been historically to the southwest based upon review of maps titled "Groundwater Table, Lines of Equal Elevation" from the Fresno Irrigation District, and occurs at a depth of approximately 90 feet below ground surface.

4.0 BACKGROUND

Five metal heating-oil USTs were removed from the site on May 15, 1995. Tanks #1 and #2 were reported to have a capacity of 150-gallons each, and Tanks #3 through #5 were reported to have a capacity of 300-gallons each. The USTs were reported to be in fair to good condition. The UST removal operations were conducted under the direction of Mr. David VanDyne of the Fresno County Environmental Health Department (Fresno County EHD). The removal contractor was Kroeker, and Krazan was present to collect the soil samples. Each UST was rinsed, iced, and, prior to removal, passed a lower explosive limit (LEL) measurement performed by Kroeker, Inc. No soil discoloration was present in the soil beneath the USTs. However, petroleum hydrocarbon odors were noted in soil samples collected from beneath Tank #4 and Tank #5. In addition, the presence of hardpan was noted at a depth of approximately 5.5 feet in Tank #5's excavation.

Under the direction of Mr. VanDyne of the Fresno County EHD, one soil sample was collected from a depth of approximately 3 feet below the bottom of USTs #1 and #2 (removed from the same

excavation), and one sample was collected from beneath each of the three 300-gallon USTs.

Four soil samples were submitted to Castle Analytical Laboratory, a State-approved environmental laboratory, located in Clovis, California. Each sample was analyzed for the presence and concentration of total petroleum hydrocarbons as referenced to diesel (TPH-D) by DHS GC/FID, and total recoverable petroleum hydrocarbons (TRPH) according to EPA Method 418.1. The results of the chemical analyses are summarized in Table I.

TABLE I
Concentration of Petroleum Constituents in Soil
Tank Removal Soil Sampling
2021 South Peach Avenue
Fresno, California
May 15, 1995 Sampling

(All concentrations are expressed in parts per million.)

Analyses	Sample S1 (Tanks #1 and #2)	Sample S2 (Tank #3)	Sample S3 (Tank #4)	Sample S4 (Tank #5)
TPH-D	ND(<1.0)	4.2	120	25,000
TRPH	ND(<15)	ND	ND	17,000
ND(<##)	=	None Detected at the detection limit noted.		
TPH-D	=	Total Petroleum Hydrocarbons as referenced to Diesel.		
TRPH	=	Total Recoverable Petroleum Hydrocarbons		

Review of the analytical results summarized in Table I indicates that detectable concentrations of petroleum constituents were present in the soil samples collected from beneath the following three of the five UST locations: 1) beneath the former UST located on the north side of Building 011 (Tank #3); 2) beneath the former UST located on the south side of Building 013 (Tank #4); and 3) beneath the former UST located near the northwest corner of Building 010 (Tank #5). Based upon the results of the soil samples obtained, further investigation of soils in the vicinity of Tanks #1, #2, and #3 does not appear warranted. However, further investigation and/or remediation of soils in the vicinity of Tanks #4 and #5 may be warranted. A copy of the UST removal report was submitted to the Fresno County EHD. In a letter dated July 27, 1995, the Fresno County EHD requested that the USDA characterize and clean up the contamination. Based on the results of chemical analyses, the USDA requested that Kroeker remove the soil containing petroleum hydrocarbons from beneath the former USTs #4 and #5 locations and dispose of the impacted soil off-site.

5.0 SCOPE OF WORK

The former locations of USTs #4 and #5 are near building footings. Additionally, hardpan soil conditions were encountered in the bottom of the excavation for UST #5. Based on the limited access and anticipated subsurface conditions, investigation/remedial activities will be performed concurrently using a backhoe rather than a more traditional method, such as drilling. However, additional assessment of the lateral and vertical extent of petroleum hydrocarbons in soil may be necessary based on the results of soil excavation and sampling and analyses. If necessary, additional assessment would be performed separate from this scope of work. As part of the proposed remedial work, the scope of work will include the following:

- Excavation of soil containing petroleum hydrocarbons from the areas of the former USTs #4 and #5; (Kroeker);
- Excavation observation (Krazan);
- Obtaining soil samples for laboratory analyses; (Krazan);
- Chemically analyzing soil samples; (Krazan);
- ✓• Off-site disposal of soil containing petroleum hydrocarbons; (Kroeker);
- Preparation of a Remediation Report; (Krazan).

6.0 SOIL EXCAVATION

The objective of the soil excavation is to remove soils containing petroleum hydrocarbons from the ground in the vicinity of the former USTs. The intent of the excavation is to remove all impacted soil and obtain confirmation samples from the excavation sidewalls and bottoms which result in no detectable petroleum hydrocarbons. At least 48 hours prior to the initiation of excavation, Kroeker will contact Underground Service Alert, and will obtain requisite State and local permits prior to performing excavation activities.

6.1 Health and Safety

Work by Krazan and excavation contractors at the site, in conjunction with the proposed soil excavation and remediation project, would be performed in general accordance with the Site Health and Safety guidelines specified in Appendix "B". Kroeker is responsible for providing a health and safety plan specific to their job duties and suspected hazards.

Kroeker will be expected to be aware of current OSHA regulations pertaining to this project for excavating and safety training in accordance with 29 CFR 1910.120. The depth of the excavation is not anticipated to exceed ten feet bgs, and shoring of the excavation is not proposed or anticipated to be necessary. The excavation will be properly maintained so worker health and safety will not be compromised (as per Title 8, CFR Section 1541 and Title 29, CFR part 1926). Krazan and Kroeker personnel will not enter the excavation.

6.2 Soil Removal

Soil containing petroleum hydrocarbons in the vicinity of the former UST locations will be excavated using a backhoe and transported off-site for disposal/recycling (discussed in Section 7.0). According to Mr. Steve Deathriage of Kroeker, the anticipated total in-place volume of soil containing petroleum hydrocarbons to be excavated is expected to be less than 20 cubic yards. Soil sampling and analyses to characterize the material for offsite disposal will be performed. Chemical analyses of this material may include additional analyses, and will be based on the requirements of the soil disposal/recycling facility. This estimate is based on data collected during the tank removal phase of the project. Actual conditions encountered during the soil excavation phase of the project may differ from the estimate.

6.3 Extent of Excavation

The estimated lateral extent of the proposed excavation is shown on Figure 2. A rubber-tire backhoe will be used to excavate soil. The anticipated maximum depth of the proposed excavation in the vicinity of former UST #5 is estimated to be 10 feet. The anticipated maximum depth of the proposed excavation in the vicinity of former UST #4 is estimated to be less than 10 feet. Based on the presence of structures to the east and west of the former UST #4, and to the south of former UST #5, the excavations are expected to be irregularly shaped. The slope of the excavation sidewalls will be determined at the time

of the excavation phase, and will be based on actual field conditions encountered. The limit of excavation is anticipated to extend to, but not beneath, structures onsite; as such, shoring and /or securing the excavation, and/or the buildings, or other surface or subsurface features is not proposed. If, however, based on field conditions at the time of excavation it becomes necessary, shoring/securing of the excavation and/or structures during excavation and backfilling will be the responsibility of the USDA.

The actual size of the excavation would be based on the condition of soils encountered during the excavation process, as observed in the field by Krazan staff, and laboratory analyses of confirming soil samples to be collected at the time of excavation. A Krazan geologist would observe and document excavation procedures and regularly screen excavated soil using subjective analyses for indications of odor and discoloration.

Soil which does not appear to contain petroleum hydrocarbons would be removed from each excavation and stockpiled separate from soils which appear to contain petroleum hydrocarbons (see Figure 2).

6.4 Soil Sampling

Soil samples would be obtained from the base and sidewalls of each excavation and chemically analyzed to confirm the absence or presence of petroleum hydrocarbons. The samples would be obtained after the bulk of soils containing petroleum hydrocarbons are removed. Soil samples would be collected by pushing brass sleeves into soils in the backhoe bucket. Soil sampling procedures are presented in Appendix A, Field and Laboratory Methods.

The excavations will remain "open" until laboratory analyses of confirmatory samples are completed. A temporary security fence would be constructed around the excavation until backfilling procedures are implemented. If petroleum hydrocarbons are detected in samples taken from the excavations, attempts will be made to further excavate soil containing petroleum hydrocarbons and an additional confirmatory sample or samples (based on the volume of additional soil to be excavated) would be obtained and submitted for analyses. Attempts would be made to continue this process until confirming samples indicate the petroleum hydrocarbons have been excavated. However, surface and subsurface constraints may limit the lateral and vertical extent of the proposed excavation.

Following excavation, approximately eight soil samples from the excavations would be chosen for testing (see Figure 3, Site Map Showing Soil Sample Locations). Approximately five samples from the excavation in the vicinity of former UST #5 would be chemically analyzed. Based on the anticipated size of the excavation, approximately three soil samples would be obtained from the excavation in the vicinity

of former UST #4 for chemical analyses. This number may vary depending on soil conditions, the size of the excavation and regulatory requirements. (To expedite backfilling procedures, and reduce contractor expenses, chemical analyses of samples collected from the excavation sidewalls and base may be performed on a one-day turnaround.)

One sample would be obtained from the stockpile of soil, at a ratio of one composite sample for every 50 cubic yards of soil, and analyzed to evaluate the presence and/or concentration of petroleum hydrocarbons in soil. Based on the requirements of the recycling facility to be selected by the USDA, additional sampling and chemical analyses may be required.

6.5 Chemical Analyses

Approximately nine soil samples would be analyzed for total petroleum hydrocarbons as referenced to diesel (TPH-D) by LUFT GC/FID methodology, and for total recoverable petroleum hydrocarbons (TRPH) by EPA Method 418.1. The composite sample collected from the soil stockpile also will be analyzed for Total Lead. Soil samples would be analyzed at Castle Analytical Laboratory, a State-certified analytical laboratory located in Clovis, California.

6.6 Backfilling

Upon receipt of chemical analyses indicating that excavation of the soil containing petroleum hydrocarbons has been accomplished (and with the concurrence of the Fresno County EHD), backfilling procedures will be implemented. The temporary security fence will be removed from the perimeter of the excavation prior to backfilling. Clean soil will be obtained by Kroeker. Compaction and compaction testing would be performed at the time of backfill emplacement. Compaction to 90% maximum dry density (ASTM 1557) is recommended.

7.0 SOIL REMOVAL

Subsequent to removal and acceptance by a recycling/disposal facility, such as Gibson Recycling in Bakersfield, California, or Morton Recycling, Inc. in Tehachapi, California, the soil would be disposed at an off-site facility selected by the USDA. Loading and hauling would be performed by Kroeker.

8.0 CLEANUP GOAL

An attempt would be made to remove soils containing petroleum hydrocarbons from the two former UST locations on site. However, surface and subsurface constraints (presence of utilities and surface and subsurface structures) may limit the lateral and vertical extent of the excavation, and residual concentrations may remain in soils following excavation. An acceptable cleanup goal should be established prior to implementing the excavation phase of the project. Additional assessment/characterization of the lateral and vertical extent of petroleum hydrocarbons in soil may be necessary based on the results of soil excavation and sampling and analyses.

As a guide, the State of California Regional Water Quality Control Board (RWQCB) Leaking Underground Fuel Tank (LUFT) Field Manual provides criteria to preliminarily evaluate potential environmental effects (leaching potential) associated with the impacted soils. The LUFT leaching potential analysis uses site specific lithologic characteristics, annual precipitation, groundwater separation, and unique site features (i.e., nearby wells, potential sources of recharge, etc.) to generate estimates of gasoline and diesel fuel concentrations that can remain in place without threatening groundwater. Although the leaching potential analyses does not specifically target high molecular weight petroleum hydrocarbons such as fuel oil, the concentrations of TRPH can be compared to the maximum allowable total petroleum hydrocarbons as diesel (TPH-D)(analyses of which will be performed as part of the proposed scope of work). It should be noted that the mobility of petroleum hydrocarbons in soil typically decreases as its molecular weight increases. The mobility of fuel oil is typically less than that for gasoline or diesel fuel based on its higher molecular weight. As such, the comparison of site-specific TPH-D concentrations should be considered conservative. A preliminary estimate suggests that a cleanup level on the order of 500 to 1,000 mg/Kg TPH-D may be appropriate, with modification of this level as applicable, based on site conditions. Prior to implementing the excavation phase of the proposed scope of work, the Fresno County EHD should be consulted and an acceptable cleanup level determined in the event that "non-detect" results cannot be obtained for soil samples collected from the excavations.

9.0 REPORTING

A Remediation Report, documenting excavation and remediation procedures and test results, would be prepared following receipt of chemical analyses indicating substantial completion of the excavation

process. The Remediation report would be provided to Kroeker and the USDA for submittal to the Fresno County EHD.

10.0 SCHEDULE

Implementation of the scope of work outlined above would begin upon receiving approval from the Fresno County EHD on the proposed workplan. Soil sampling would be performed in conjunction with soil removal activities. Chemical analyses would be performed on a standard 5-day turnaround time (with an optional one-day turnaround for select samples), and a report presenting the results of excavation activities and chemical analyses. This workplan is based on an estimated volume of affected soil at the aforementioned location at the site and includes only those services to be provided by Krazan & Associates and its subcontractors.

We appreciate the opportunity to be of service. If you have questions or require additional information, please call the undersigned at (209) 348-2200.

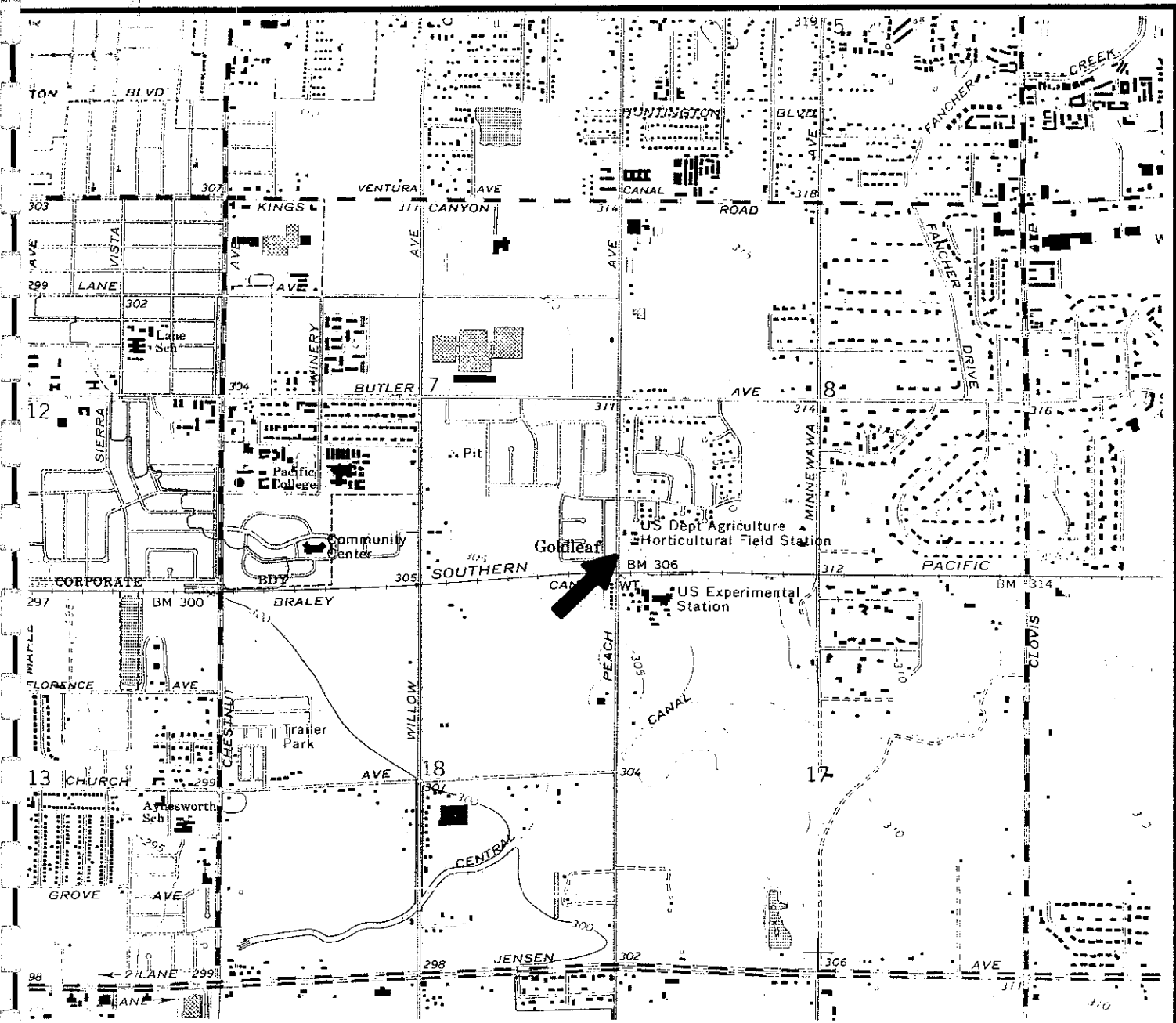
Sincerely,
KRAZAN & ASSOCIATES, INC.



Nathan A. Stoopes
Project Manager



Dean Alexander
Civil Engineer
RCE #34274/RGE #002051



VICINITY MAP

MAP SOURCE:

U.S.G.S. "MALAGA, CA" QUADRANGLE
 7.5 MINUTE SERIES (TOPO) DATED: 1964,
 PHOTOREVISED: 1981.



← SITE LOCATION

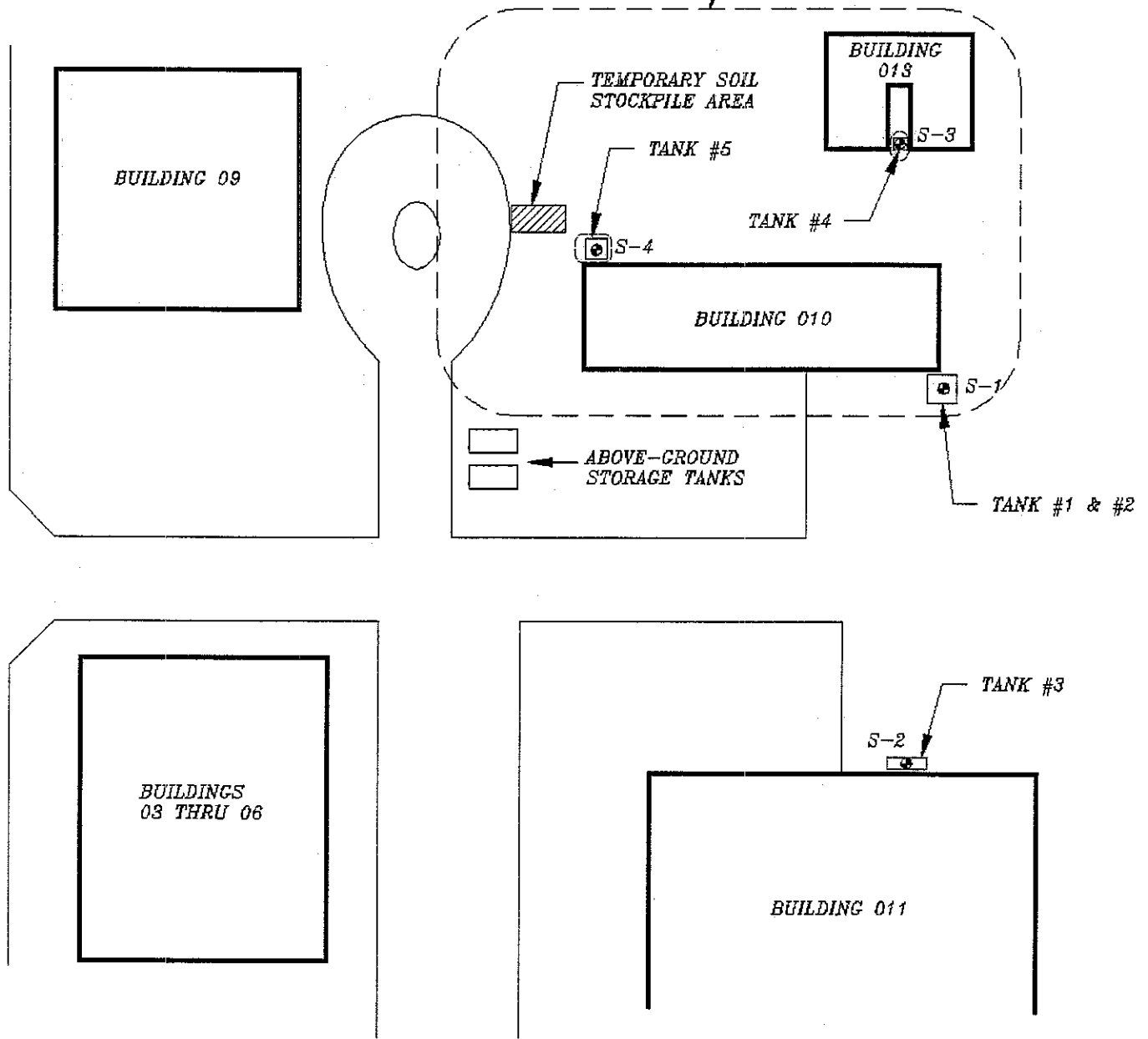
**USDA AGRICULTURAL
 RESEARCH SERVICES FACILITY
 2021 S. PEACH AVE.
 FRESNO, CA**

Scale: AS SHOWN	Date: 8-95
Drawn by: J.A.G.	Approved by: N.S.
Project No. 01495132	Figure No. 1

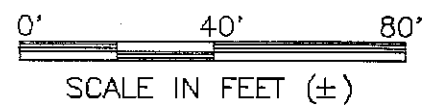
Krazan
 ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SPECIALISTS
 Offices Serving the Western United States

S. PEACH AVE.

SEE "PROPOSED SAMPLE LOCATION MAP"



SAMPLE LOCATION MAP

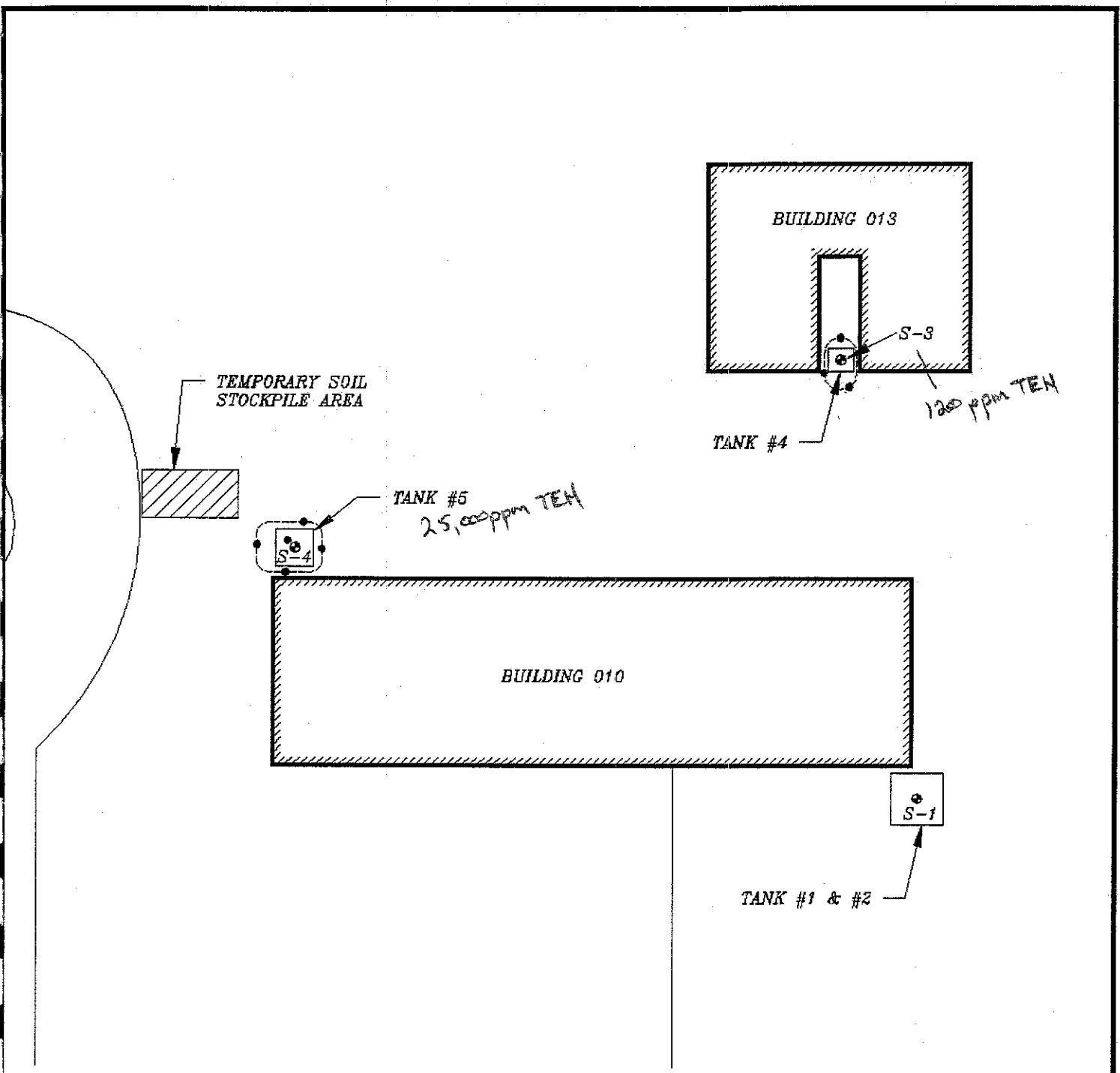


- SAMPLE LOCATION (5/15/95)
- ESTIMATED LIMITS OF PROPOSED EXCAVATION

USDA AGRICULTURAL
RESEARCH SERVICES FACILITY
2021 S. PEACH AVE.
FRESNO, CA

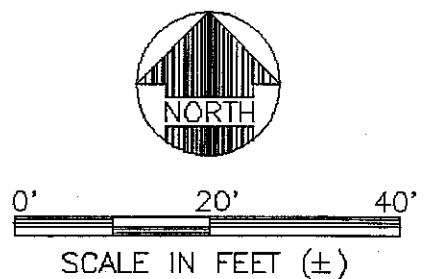
Scale: AS SHOWN	Date: 8-95
Drawn by: J.A.G.	Approved by: N.S.
Project No. 01495132	Figure No. 2

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PROPOSED SAMPLE LOCATION MAP

- PROPOSED SAMPLE LOCATION
- SAMPLE LOCATION (5/15/95)
- ESTIMATED LIMITS OF PROPOSED EXCAVATION



USDA AGRICULTURAL
RESEARCH SERVICES FACILITY
2021 S. PEACH AVE.
FRESNO, CA

Scale:	AS SHOWN	Date:	8-95
Drawn by:	J.A.G.	Approved by:	N.S.
Project No.	01495132	Figure No.	3

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FIELD AND LABORATORY METHODS

Soil Sampling Methodology

Confirmatory samples from the sides and bottom of the excavations would be collected in clean stainless steel or brass liners. The tube would be hand pushed into the soils in the backhoe or excavator bucket. The ends of each liner would be sealed immediately with a Teflon-lined plastic cap and taped. The procedure for obtaining soil samples from stockpiled and remediating soils would be the same except that liners would be pushed directly into stockpiled and remediating soils. Each sample would be labeled with the job name and number, sample location and depth, collector's initials, and date and time. The samples would be placed in an insulated chest cooled to about 4° degrees Celsius. Chain-of-Custody forms would be completed in the field.

Laboratory Analyses

Chemical testing will be performed by State of California certified Analytical Laboratories. Chemical analyses will include testing for Total Petroleum Hydrocarbons as referenced to diesel (TPH-D) according to DHS GC/FID and TRPH by EPA Method 418.1 and Total Lead.

**KRAZAN & ASSOCIATES, INC.
 HEALTH AND SAFETY PLAN
 SUMMARY**

The purpose of this summary is for quick field reference for the commonly referred to items covered in the Health & Safety Plan. It is not the intent of this summary to replace or supersede the information referred to in the Health & Safety Plan.

ANTICIPATED CLOTHING/EQUIPMENT

- Hard Hat
- Ear Plugs
- Gloves (work ___/nitrile ___/other ___)
- Krazan & Assoc. Uniform ___/White Tyvek® Coveralls ___/Yellow Tyvek® Coveralls ___
- No Respirator ___/Half-Face Air Purifying ___/Full-Face Air Purifying ___/Supplied Air ___
- Safety Glasses
- Steel Toe/Shank Boots (Work ___/Rubber ___)

EMERGENCY CONTACTS

- | | | | |
|---------------------|----------------|------------------------------|----------------|
| • K&A (Main Office) | (209) 348-2200 | • Hospital | (209) 453-4000 |
| • Fire | 911 | • County Env. Health | (209) 445-3271 |
| • Police | 911 | • HazMat Team | (209) 445-3271 |
| • Paramedics | 911 | • Local Cal EPA (DHS) Office | (209) 297-3901 |

NOTE: For additional information regarding this project site, please refer to the Health & Safety or Work Plans for this investigation.

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August 25, 1995

Project No. 95-132

**HEALTH AND SAFETY PLAN
EXCAVATION & REMEDIATION
USDA FACILITY
2021 SOUTH PEACH AVENUE
FRESNO, CALIFORNIA**

1.0 INTRODUCTION

This plan describes the health and safety procedures for the activities planned for the investigation at the USDA facility located at 2021 South Peach Avenue in Fresno, California. All Krazan & Associates employees and field personnel will abide by this plan. It is intended that all project work will comply with applicable codes and regulations of the United States Occupational Safety and Health Administration. Each field team member working on this project will have the general responsibility to identify and correct any health and safety hazards and strive to make the work place safe.

1.1 Project Description

This project is the investigation (observation and field sampling) to be performed by Krazan & Associates at the previously-mentioned project site. The scope of the project will include the excavation and off-site disposal of soils on the subject property. Sample labeling, preparation, shipment, and analyses will also be performed.

1.2 Key Personnel & Responsibilities

The following personnel who will have the overall responsibility for the safe operation of this investigation are:

Project Directors:	Dean Alexander
Corporate Safety Officer:	Sue Bohigian
Task Leaders:	Nathan Stoopes
On-site Safety Task Leader:	Nathan Stoopes

It is the responsibility of the above-designated safety officers and task leaders to:

- Implement, the site safety training program for all project field team members as described in this document.
- Assure that all field personnel have read and understand this Health and Safety Plan.
- Establish effective traffic and pedestrian control around the subject site.
- Insure that adequate site security is maintained.
- Perform work place surveillance for flammable/explosive conditions and insure that there is a portable fire extinguisher located on-site.
- Observe activities to insure the proper use of personal protective equipment such as hard hats, protective eyewear, coveralls (Tyvek® etc,...), respirators, gloves, and steel-toe boots, etc.
- Inspect safety equipment for use by all field personnel to insure that it has been maintained and is in a useable condition.
- Shut down or modify field work activity based on the criteria presented in Section 11.0.
- Initiate outside emergency phone calls when an emergency or accident requires medical attention.
- Insure that all field personnel meet or exceed the minimum requirements for health and safety training, medical monitoring, and respiratory fit testing as required by OSHA 29 CFR 1910.120.

All field personnel will have a responsibility to:

- Read understand, and follow this plan.
- Perform work safety.
- Cooperate with all safety personnel.
- Report any unsafe conditions to the immediate supervisor.
- Be aware and alert for signs and symptoms of potential exposure to site contaminants and health concerns.
- Attend the site safety training program/meeting.

- Insure drilling equipment and other machines are properly inspected and maintained and in compliance with applicable sections of the California and United States Occupational Health and Safety Codes.
- Maintain safety related protective equipment such as hard hats, Tyvek® coveralls (or equivalent), gloves, safety eyewear, respirators, etc., as specified in this plan.

2.0 HAZARD EVALUATION

This Health and Safety Plan addresses specific on-site work activities related to the collecting of samples and data from the project site.

Based on the limited historical and technical data available, this plan covers anticipated activities and hazards, and makes provision for modification or amendment as health-related data is obtained during this investigation. This plan will be amended with site-specific hazards identified as posing a potential health hazard for workers. For select sites, the Safety Officer will conduct a preliminary survey involving air and bulk solid sample analysis, and amend the Health and Safety Plan as needed.

As analytical data become available, the information will be evaluated by a Health and Safety Task Leader. Appropriate action in the form of Work/Health and Safety Plan modifications will be initiated by the Safety Officer or the Health and Safety Task Leader.

The anticipated activities of this investigation will include:

- Excavation and backfilling of excavation.
- Collection of samples for chemical analysis.
- Sample preparation packaging and shipment of samples for chemical analysis.
- Analysis of selected samples by subcontracted laboratories (not covered under this plan).

The general categories of hazards associated with this investigation are:

- *Mechanical hazards and hazards associated with large equipment:* cuts, contusions, slips, trips, falls, being struck by moving objects, being caught by rotating objects; also muscular injury potential caused by overexertion or improper movement (e.g. back injury due to improper lifting), etc....
- *Electrical hazards:* possible excavation of buried cables, exposure to overhead power lines, wet electrical cords, etc.

- *Chemical hazards:* exposure to chemicals/contaminants listed in Section 4.0 of this plan and exposure to extraction solvents, etc.
- *Fire hazards;* possible excavation of buried utilities, flammable petroleum hydrocarbons, equipment fires, etc....
- *Thermal (heat stress) hazards:* exposure to outside temperature extremes, and/or increased body temperatures while wearing protective clothing/equipment etc....
- *Acoustical hazards:* exposure to excessive noise created by drilling operations and/or related to the site-specific operations, etc....
- *Routine job-related hazards* in the subcontractor's laboratory. Neither these hazards nor any activities performed in the subcontractors laboratory are covered by this plan.

Job hazard analyses associated with most major work activities are presented in the following sections.

2.1 Excavations

All excavations will be performed in accordance with 29CFR 1976.650, Excavations, trenching and shoring. Excavations will be performed by a subcontractor. The subcontractor will be responsible for their own Health and Safety plan. Excavation activities will potentially expose field personnel to the following hazards:

Chemical hazards:

- Exposure to various chemical substances, including but not limited to petroleum contaminated soils or sludges. Certain precautions may be necessary to properly control the potential fire/explosion/health hazards associated with these chemicals.

Physical hazards:

A. Injuries

Excavation work sometimes requires field personnel to work in close proximity to heavy machinery. Because of the proximity of workers and equipment, a risk of physical injuries resulting from operator error, carelessness or miscalculation does exist.

- *Surface encumbrances.* All surface encumbrances such as trees and boulders must be removed or supported if they present a hazard to employees.
- *Utility identification.* Employees may be exposed to serious hazards such as flooding, electrical shock, asphyxiation, fires and explosions resulting from damage to underground installations. As a result, utility lines such as gas, electric telephone and water must be identified before digging begins.

- *Access and egress.* In trenches deeper than four feet, a stairway, ramp or ladder must be positioned within 25 feet of where employees are working.
- *Overhead loads.* Employees are not allowed under loads handled by lifting or digging equipment. They must also stand clear of any truck being loaded or unloaded so that they will not be struck by spillage and debris.
- *Mobile equipment.* Whenever a mobile equipment operator does not have a clear and direct view of an excavation's edge, a warning system such as barricades or hand signals must be employed to assure that the equipment does not accidentally roll into the excavation.
- *Water accumulation.* Accumulations resulting from rain, melting snow, or leakage from damaged sewer and utility lines can saturate the side walls of excavations and weaken them. Flowing water can erode material from shoring systems to the point of failure.

B. Explosion

Although many hydrocarbon compounds are flammable, they ignite only when very high airborne concentrations and temperatures exist; these conditions are not expected to occur during excavation.

C. Slips and Falls

The use of heavy machinery presents the risk of physical trauma, and the uneven terrain and debris poses the threat of trip-and-fall and slippage. Provided work proceeds as a planned, methodical process, these physical hazards can be minimized or eliminated.

D. Shoring

All workers will keep strict adherence to the contractor shoring procedures in compliance with OSHA regulations.

E. Confined Space

A confined space is defined as an enclosed space which 1) has restricted means of entry and exist and 2) insufficient existing ventilation. If workers are to be exposed to hazards of confined spaces strict compliance to OSHA regulation shall be followed.

2.2 Heat Stress/Stroke

During day-to-day field work, the on-site engineer/geologist and/or safety officer will be alert for the signs and symptoms of heat stress. Hazard exists when individuals are required to work in warm or hot temperatures while wearing protective clothing. When the ambient air temperature exceeds 85°F, heat stress may become a problem. For an unacclimatized person this temperature may be less. If these conditions are encountered, the following precautions will be taken:

The on-site geologist/engineer or safety officer will regularly monitor the ambient air temperature.

Field team members will be observed for the following signs and symptoms of heat stress (i.e. heat exhaustion/heat stroke):

Heat Exhaustion

- Profuse sweating
- Skin color change
- Increased heart rate
- Vision problems
- Heat cramps

Any team member who exhibits any of these signs or symptoms of heat exhaustion will be removed immediately from field work and be requested to remove impervious clothing, and consume electrolyte fluid or cool water while resting in a shaded area. The individual will be instructed to rest until the symptoms are no longer recognizable. If the symptoms appear critical, persist or get worse, immediate medical attention will be sought.

Heat Stroke

- Hot, dry, unusually red skin
- Delirium
- Elevated temperature of 103-105°
- Convulsions

Any team member who exhibits any of these signs or symptoms of heat stroke will be removed immediately from field work and be requested to remove impervious clothing, be immersed in cool water and immediate medical attention will be sought.

2.3 **Sampling for Chemical Analysis**

Samples will be collected for the purpose of observation and soil logging. Additionally, selected samples may be submitted for chemical analysis. Some of these samples may contain high levels of hazardous materials creating the potential for chemical inhalation exposure, skin contact and possibly even ingestion. These activities may pose one of the greatest risks of chemical exposure for the site assessment work plan. Appropriate worker training, protective measures and medical monitoring will be enforced to control this health hazard potential.

2.4 Packaging and Shipment of Samples

After the samples have been collected in sample containers, they will be properly packaged to protect shipping personnel. The hazards associated with shipping samples are minimal, provided care is taken to prevent the containers from leaking or breaking. Additionally, sample containers will be plainly marked in case of exposure.

2.5 Sample Preparation and Analysis

The preparation of samples for analysis may expose the technician to routine hazards associated with laboratory work. Standard laboratory safety procedures should be used to prepare and analyze these samples. The samples should be treated carefully and handled inside a properly operating fume hood due to their potentially volatile and hazardous nature. In the event of a mishap, the laboratory supervisor should be notified immediately.

3.0 SAFE WORK PRACTICES AND LEVEL OF PERSONAL PROTECTION

The following sections present procedures on how to adequately address the primary potential hazards encountered in the different task of this project. The standard level of personal protection is also defined.

Based on the work to be performed the type of chemical hazards that may be encountered, EPA Level D personal protection has been determined to be adequately protective and suitable for most of the tasks in this project. Certain tasks may require a higher level of protection, such as air-purifying or air-supplied respirators. These determinations will be made by the Safety Officer or Safety Task Leader and will be specified as amendments to this section of the plan.

3.1 Potential Fire/Explosion Hazard

Due to the flammable nature of the hydrocarbons, explosive vapor conditions will be carefully monitored by the Krazan & Associates task leader. Although the petroleum hydrocarbons anticipated are fuel oil in the range of diesel, lower explosive limit (LEL) measurements will be taken using the PID and documented. The LEL for gasoline hydrocarbons is approximately 1.4% in air. Using a 10-fold safety factor, a working criteria of 1400 ppm (10% LEL) as measured by a PID is established for explosion hazards. When measurements obtained near the excavation reveal this concentration, or above, work will be stopped. Additionally, the field crew will be instructed to stay upwind until these concentrations diminish.

3.2 Potential Health Hazards

Depending on the conditions encountered, the Task Leader in coordination with the Project Safety Officer may increase or decrease the level of personal protection required of all field team members. Such decisions will be made based on initial and periodic measurement of breathing zone concentrations of petroleum constituents by PID and on other data collected as work is conducted on a given site.

Generally speaking, EPA Level D Personal Protection will be in accordance with the following guidelines:

- Krazan & Associates technician uniform
- Hard hat
- Safety glasses
- Ear plugs (as required)
- Steel-toe boots.

Some general guidelines representing EPA Level C personal protection that may be used are:

- Tyvek® coveralls (or equivalent), neoprene boots and rubber gloves (to be worn by any personnel who handle contaminated drilling equipment.
- Individuals at drilling sites not directly exposed to contaminated soils or liquids may not need to wear Tyvek® coveralls due to the increased hazards of heat stress when wearing this type of clothing.
- Latex or PVC disposable gloves should be worn under butyl rubber or nitrile gloves to provide an extra measure of hand protection when handling heavily contaminated soils and water samples.
- Chemical splash goggles will be worn when increased splash hazards exist, such as steam cleaning activities, during or the handling of contaminated liquid samples.
- Respiratory protection will be worn during drilling activities which have the potential to expose workers to hazardous levels of airborne contaminants. Direct reading personal breathing zone monitoring will be performed. The criteria established for the use of respiratory protection are discussed in Section 4.0.

3.3 Potential Heat Stress Hazards

During conditions when the temperature, humidity and/or radiant heat are high and air movement is low, the following procedures will be followed to prevent heat stress hazards for workers wearing protective clothing/equipment:

- Work activity will be limited to reduce the amount of heat naturally produced by the body. Alternating work and rest periods will be used in high potential conditions.

For example, in moderately hot conditions, 5 minute rest breaks in the shade with 60 minute work periods in the sun may be desirable. Under severe conditions, the duration of rest periods will be increased as necessary.

- Heavy work will be performed during the cooler periods of the day when feasible.
- Under heat stress conditions special attention will be given toward assuring workers replace lost body fluids. Adequate supplies of cool drinking water or electrolyte solution will be provided by each company for their own employees' use. Workers will be instructed in the need to replace the fluids throughout the working day.
- Special care and attention will be paid to field crew members that may not be acclimatized to the area.

3.4 Potential Noise Hazards

Exposure to excessive noise will be controlled by issuance and use of hearing protection as instructed by the Task Leader or Safety Officer. Noise levels will be periodically monitored by the Safety Officer.

4.0 HYDROCARBON VAPOR HAZARD CRITERIA

Exposure to elevated levels of hydrocarbon vapors presents potential health risks that must be addressed. Work practices and methods will be used to limit exposures. Where elevated exposures persist, respiratory protection will be used to protect personnel from inhalation of hydrocarbon vapors. The hydrocarbon vapors expected to be encountered during the field portion of this investigation are composed of a variety of relatively low-volatility refined petroleum constituents. Most of these chemicals have limited toxicity thus requiring minimal controls at the concentrations that are anticipated to be encountered. There are certain components, such as benzene vapors, that present significant toxicological hazards and must be properly controlled. Water, soil, and vapor samples collected near the point of release commonly contain benzene at 1% of the total hydrocarbon constituents. Criteria for the use of respiratory protection is based on limiting potential exposures to benzene.

A limit of 100 ppmv total hydrocarbon is proposed as the maximum acceptable hydrocarbon level of exposure without respiratory protection. An H-nu[®] photoionization detector (PID) will be used to measure total hydrocarbon levels of the sample. When levels of the sample are above 50 ppm, breathing zone concentrations will be monitored and documented every 15 minutes. When a persistent level of 50 ppmv is noted to exist at the breathing zone, an appropriate respirator will be donned by that field team member. In a typical situation, with 1% of the hydrocarbon vapors being benzene, a 50 ppmv concentration of total

hydrocarbon would result in a breathing zone level of 0.5 ppmv benzene. This level is one half of the current Permissible Exposure Limit (PEL) of 1 ppm for an 8-hour occupational exposure to benzene.

When possible, to assure benzene exposures are below a 1 ppmv limit, Dräger® benzene detector tubes will be used if PID measurements of the breathing zone concentrations indicated persistent hydrocarbon levels above 50 ppmv. These detector tubes are not compound specific and may respond to other less hazardous petroleum hydrocarbons such as toluene, xylene and ethylbenzene. In the event that benzene detector tube measurements indicate that levels exceed 0.5 ppmv in the breathing zone; respirators will be required. This is considered a conservative approach since the Dräger® detector tubes may respond to several hydrocarbons other than benzene.

Table 1 summarizes the various hydrocarbon vapor concentration and appropriate responses to prevent exposure to these potential vapor hazards.

**TABLE 1
HYDROCARBON VAPOR CRITERIA AND RESPONSES**

HYDROCARBON CONCENTRATIONS	RESPONSE
< 50 ppmv TVH	Limited hazard, no special action.
50-100 ppmv TVH General Work Areas	Half-mask OV Respirators worn by all potential exposed in work area.
50-1400 ppmv TVH General Work Areas	Half-mask OV Respirators worn by all potentially exposed in work area. Benzene detector tube measurements taken each 15 minutes until levels below 1 ppm.
> 1400 ppmv TVH General Work Areas and/to well head emissions	Work stops; procedures taken to subdue excessive vapor levels.
> 1 ppmv Benzene at Breathing zone	Half-mask OV Respirators worn by all potentially exposed in work area. Benzene detector tube measurements taken each 15 minutes until levels below 1 ppm.

ppmv = parts per million vapor
 TVH = Total Volatile Hydrocarbons
 OV = Organic Vapor

5.0 PERSONAL PROTECTIVE CLOTHING/EQUIPMENT REQUIREMENTS

This section specifies personal protective clothing/equipment required for the various tasks to be performed during this investigation. Table 2 summarizes these requirements.

5.1 Excavation

- **Respiratory Protection:** All field personnel will be required to have available for use, a properly fit tested half-mask air purifying respirator with organic vapor cartridges and particulate pre-filters. These will be required to be worn based on the criteria listed in Section 4.0.
- **Protective Clothing:** All field personnel who handle contaminated soils, liquid, or auger flights will wear semi-permeable (white) Tyvek[®] coveralls (or equivalent). Company issued safety helmets will be worn by all personnel during field work.
- **Hand Protection:** Butyl rubber or nitrile gloves will be worn by all personnel handling auger flights and contaminated soils. Wearing disposable latex or PVC gloves under the butyl gloves will provide added protection and aid in a more effective decontamination process.
- **Ear Protection:** Based on anticipated on-site noise measurements, field personnel may be required by the task safety leader or safety officer to wear hearing protection devices (ear plugs) during drilling operations.
- **Eye Protection:** Each field team member will wear a minimum of impact-resistant safety glasses with attached side shield. Where splashes of potentially hazardous liquid or flying particles are likely, chemical safety goggles will be required in place of safety glasses.
- **Foot Protection:** Field personnel will wear neoprene rubber boots with steel toes and shanks. Under non-liquid exposure conditions, leather boots with steel toes and shanks are permissible. The boots will be taped to the leg of Tyvek[®] suits.

At the discretion of the on-site Safety Task Leader, rubber gloves, Tyvek[®] coveralls and neoprene boots may not be required if soil or water is not obviously contaminated, or if PID measurements of the split-spoon soil samples are below 500 ppmv.

5.2 Sample Collection

Personnel who may be exposed to contaminated samples and/or liquid splashes will be required to wear the following equipment:

- *Respiratory Protection:* All sampling personnel will be required to have available for use a properly fit tested half-mask air purifying respirator with organic vapor cartridges with particulate pre-filters. Respirators will be worn based on criteria listed in Section 4.0.
- *Body Protection:* All sampling personnel will wear semi-permeable (white) Tyvek® coveralls when contact with contaminated soil or liquids is likely to occur. Company issued safety helmets will be worn when overhead hazards exist.
- *Hand Protection:* Butyl rubber or nitrile gloves will be worn over disposal latex or PVC gloves.
- *Eye Protection:* Impact-resistant safety glasses with attached side shield must be worn during sampling activities. Where splashes may occur, chemical goggles must be worn.
- *Foot Protection:* Neoprene rubber boots with steel toes and shanks will be worn.

5.3 Packaging and Shipment of Samples

- *Eye Protection:* Impact resistant safety glasses with attached side shield will be worn while packaging samples for shipment.
- *Hand Protection:* Butyl rubber or nitrile gloves will be worn under disposal PVC gloves.

All samples will be shipped strictly to a state approved laboratory. Shipping must comply with Department of Transportation (DOT) regulations. The following instructions will be followed to comply with DOT regulations:

- Tape all lids with electrical or other tape,
- Wrap the primary container with absorbent brown paper (wadding),
- Place the primary container in a plastic bags (zip-lock, or equivalent)
- Place into an "ice chest" with a synthetic ice
- Tape or secure the "ice chest" lid and secure with a chain of custody seal (if applicable)
- Labels identifying the generator's name, address and known content of the drum

In the event that samples are to be personally transported to the state-approved laboratory, some of the above packaging and shipping requirements may not apply. Any questions should be referred to the project manager.

5.4 Sample Preparation and Analysis of Samples

All laboratory safety practices should be accomplished in accordance with the specific labs policy. Krazan & Associates, its owners, clients, employees, and representatives are not responsible for safety on laboratory premises. Therefore, both shall be held harmless in the event of any mishap, accident or long term adverse health effects occurring or originating at the subcontractor laboratory.

TABLE 2
PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS
DRILLING OPERATIONS
Drilling Crew

MANDATORY ITEMS

Tyvek® Coveralls*
Chemically Resistant Gloves*
- Neoprene Safety Boots*
Safety Helmet
Safety Glasses

AVAILABLE ITEMS

Respirator
Splash Goggles
Ear Plugs

Geologist/Engineers

MANDATORY ITEMS

- Neoprene Safety boots*

Safety Glasses
Safety Helmet

AVAILABLE ITEMS

Respirator
Tyvek® Coveralls
Chemically Resistant Gloves
Splash Goggles
Ear Plugs

Surveyors/Safety Personnel

MANDATORY ITEMS

Neoprene Safety Boots*
Safety Glasses
Safety Helmet

AVAILABLE ITEMS

Respirator
Tyvek® Coveralls
Chemically Resistant
Gloves

Splash Goggles
Ear Plugs

- Steel toe boots will be worn if neoprene safety boots are not required.

PACKAGING AND SHIPPING SAMPLES

Sample Controller

MANDATORY ITEMS

Safety Glasses

AVAILABLE ITEMS

Respirator
Chemically Resistant
Gloves

SAMPLE PREPARATION AND ANALYSIS

Analyst

MANDATORY ITEMS

Safety Glasses

AVAILABLE ITEMS

Respirator
Chemically Resistant
Gloves

* Not required if soil or water is not visibly contaminated, or if PID measurements of the soil samples are below 100 ppmv.

6.0 WORK ZONE ACCESS

During drilling operations a work zone shall be established and roped off. This zone should include all drilling equipment and its immediate vicinity. Only authorized personnel will be permitted to enter this work zone. Authorized personnel will include those who have duties requiring their presence in the work zone, have received appropriate health and safety training, and whose background medical records may be obtained to verify that the health of that individual is not at extreme risk by his/her presence.

7.0 DECONTAMINATION PROCEDURES

During this phase of work drilling activities are not anticipated. However, due to the volatile nature of the petroleum hydrocarbons that may be encountered during drilling and sampling operations, decontamination of equipment and vehicles will be of minimal importance since the volatile hydrocarbons will rapidly vaporize. Contaminated sampling equipment and any obvious contaminant accumulations will not leave the project site. Field team members will also abide by the following guidelines to insure that contaminants will not remain in contact with their body.

- All personnel involved in the field portion of this investigation will be instructed to wash their hands, face, neck and arms at the end of the work day. Krazan & Associates will assure the presence of soap, water and towels at the drilling site for this purpose. All crews will be instructed to shower at their home or lodge at the end of the workday.
- No eating, drinking, smoking or chewing of gum or tobacco will be permitted in the work zone.
- During this investigation, the nature of materials handled and the extent of contamination may require formal decontamination procedures and delineated work/clean zones. At the discretion of the Task Leader, the following work zones and decontamination procedures will be used to minimize the transfer of hazardous substances from the site so as to protect the environment and public health.

7.1 Work Zones

The field team shall prevent the uncontrolled movement of waste materials or hazardous substances from the drilling site. The team will prevent migration of site contaminants by using the following work zones and equipment/personnel decontamination procedures.

Exclusion Zone: A circle around any given bore hole will be defined before drilling starts. In most cases, the zone will be "roped off" with an applicable barricade tape. This designated area will constitute the "Exclusion Zone". This zone is where potentially hazardous surface contaminants as a result of our investigation and physical hazards to the workers will be contained. Personal protection equipment will be required in this area according to the discretion of the Task Leader and/or in accordance with the guidelines contained in this plan. The size of the Exclusion Zone may be changed to accommodate site conditions and to ensure contaminant containment at the discretion of the project manager, safety officer, or task leader. No personnel will be permitted into the Contamination Reduction Zone or the Exclusion Zone unless they are in full compliance with the existing Safety Plan. The buddy system must be maintained by all personnel while in this zone. Intrinsically safe communications will be maintained with all personnel in this area.

Contamination Reduction Zone: An area surrounding the Exclusion Zone will be defined. All personal decontamination activities will occur in this area. A waste container may be placed in this area so that contaminated disposal equipment can be placed inside and covered. Surface/soil contamination in this area may be controlled by use of some form of plastic sheeting.

Support Zone: A Support Zone, must be defined for each field activity. Support personal and/or equipment is located in this uncontaminated (clean) area. Normal Krazan & Associates field uniforms are appropriate within this zone. The location of this zone depends on factors such as accessibility, wind direction, nearby roads, utilities, traffic patterns, shelter, etc....

7.2 Decontamination Protocol

Decontamination of personnel and equipment will be important to ensure that contamination does not spread to others. Personal decontamination mainly involves the removal of some outer wear and good personal hygiene habits. Contamination should never be in contact with the skin. All field team members must follow this plan to ensure that contamination does not remain on equipment, sample containers or their body.

All field team members should remove their personal protective clothing in a certain sequence to avoid contaminating their inner clothing or themselves. When removing personal protective equipment, the following steps should be observed:

- Step 1:* Remove all equipment, sample containers, and notes and non-essential items while in the Contamination Reduction Zone. Obtain decontamination solutions or a steam cleaner and decontaminate all tools and sampling equipment. Under most circumstances, all wastes and rinsates will be properly contained.
- Step 2:* Remove outer gloves and boot covers and place them inside a garbage bag or drum.
- Step 3:* Remove tape from boots and gloves and remove the Tyvek® coverall (if used). Tyvek® coverall removal should be accomplished by rolling, the outside of the coverall inside itself so that only the inside of it is exposed. Boots, inner gloves, and respirator should still be worn.
- Step 4:* Remove the inner gloves and respirator when in the Support Zone.

7.3 Personal Hygiene Requirements

The following procedures should always be observed in the support zone:

- All personnel must wash their hands, face, neck and forearms before consuming any food or liquids, smoking, or using the rest room.

- All personnel must take a shower at the end of each work day. Particular attention should be given to areas of the body that are typically overlooked.

8.0 MONITORING PROGRAM

Personal exposure to ambient levels of airborne hazards and noise will be monitored and/or observed to insure that personnel exposures do not exceed acceptable limits and for the selection of protective equipment. Personal monitoring will be randomly performed using personal air pumps and appropriate sampling tubes. Previous data from similar jobs may be used to determine PPE levels. On all jobs, airborne contamination and downhole hydrocarbon vapor concentrations will be measured primarily by the use of a direct reading instrument such as a photoionization detector. If concentrations approach established levels, Dräger® detector tubes will be used to determine the presence and concentration of benzene. Site visits/inspections may be conducted by the Krazan & Associates Safety Officer to insure compliance with this plan.

8.1 Photoionization Detector

During this investigation, the ambient air, drilling returns, soil samples, and boreholes will be screened with a calibrated H-nu® brand, portable photoionization detector (PID). The PID is a direct reading real-time analyzer that is capable of detecting most of the volatile hydrocarbons constituents present in a vapor phase. The PID to be used for this investigation uses a 10.2 electron volt lamp and is calibrated using an iso-butylene calibration gas. Iso-butylene is a relatively safe calibration gas similar in ionization potential to benzene (the carcinogen of primary concern present in petroleum products).

8.2 Dräger® Detector Tubes

Dräger® detector tubes will be used to determine airborne concentrations of benzene in the breathing zone during this investigation. A member of the field team will take detector tube readings if high PID measurements so warrant.

Readings will be taken in the area where the field team members are working. Dräger® #6728561 benzene detector tubes will be used (measurement range 0.5-10 ppmv). The detector tube pump will be inspected for proper operation prior to field operations.

9.0 SAFETY AND HEALTH TRAINING

All field personnel will be trained in methods of safely conducting field activities. This plan is intended to provide additional site specific information to accomplish this goal. It will be the responsibility of the Project Directors, Safety Officer, and Safety Task Leader to ensure the field team has access to, reads, and understands this plan. It will be the individual's responsibility to bring to the attention of the Project Director or Safety Officer any portion of this plan and related training they do not fully understand. Prior to the commencement of the field portion of this investigation, the field team will meet to discuss the contents of this plan and make sure all members understand it.

At the site meeting, all field team members will be instructed regarding the health and safety hazards. Especially:

- Physical safety hazards.
- Emergency procedures.
- Explosive/flammability hazards.
- The hazardous materials that may be encountered and their potential routes of exposure.
- Personal hygiene practices.
- The types, proper use, inspection, limitations, maintenance, and storage of protective clothing and equipment (as applicable).
- In the event that the ambient air temperature exceeds 85°F, a review of heat stress symptom recognition/corrective procedures will be conducted. For an unacclimatized person, this value may be less.

Special emphasis will concern the use and limitations of respiratory protection. Half-mask respirators (or equivalent) equipped with air purifying organic vapor cartridges will be used. Full-face respirators will be used if eye irritation or skin contact exposure potential exists.

Medical/physical fitness requirements to wear respiratory protection, will be established by a physician, and individuals will be trained in use limitations and maintenance of half-mask and full-face respirators including qualitative fit testing, routine inspection, replacement of parts, cleaning, disinfection, and storage requirements.

Copies of this entire plan will be provided for each field team member at the project site, or prior to arrival.

10.0 MEDICAL MONITORING PROGRAM

The field investigation at this project site is expected to involve active physical work and potential exposure to petroleum hydrocarbons, and possibly other related hazardous substances. Exposure to heat stress, noise and physical safety hazards may also be encountered. The work will require people of good health with normal vision and hearing. Krazan & Associates' industrial physician is periodically asked to provide documentation of employee medical fitness to perform the required work in the form of signed document. This documentation should also indicate the employee's ability to perform the required work while wearing a respirator. (See Medical Monitoring Plan).

11.0 EMERGENCY RESPONSE PLAN

The emergency procedures described in this plan are designed to give the field team guidance in the handling medical emergencies, fires, explosions, and excessive emissions. These emergency procedures will be carefully explained to the field team during the on-site health and safety meeting.

11.1 Injuries

Medical problems must be quickly dealt with; a road map to the nearest emergency medical facility are kept in an envelope on the dash of each Krazan field vehicle of drill rig. A map with a route to the hospital is included in this plan. The local emergency numbers are:

Police:	911
Fire:	911
Paramedics:	911
Hospital: Valley Medical Center Cedar & Ventura	(209) 453-4000
Fresno County Hazardous Materials Team	(209) 445-3271
Fresno Environmental Health Dept.	(209) 445-3271

The field team is to seek immediate professional medical attention for all serious injuries. A first aid kit will be present at the drilling site for use in case of minor injuries. If any field team member receives a splash or particle in the eye, the eye is to be flushed for 15 minutes. Clean water or a portable eye wash will

be available for this purpose. Instruction will also be provided to wash any skin areas with soap and water if direct contact with contaminants has occurred.

During normal field activities work clothes may become wet. If a field team member's clothing becomes saturated with an obviously contaminated liquid/sludge the possibility for dermal exposure to contaminants may exist. Under these circumstances, that field team member will change out of the contaminated clothing clean off any residual liquid/sludge with water and change into clean clothing of the proper level of protection.

11.2 Fire and Explosion Hazards

Fires are of particular concern during this investigation due to the possibility of encountering flammable petroleum hydrocarbon liquid or vapors. An adequate multi-purpose (A,B,C) fire extinguisher will be located on-site on the drill rig at all times.

The local fire department will be notified by a Krazan & Associates representative of the location and anticipated activities in order to provide a more timely response in the event of an emergency. In the remote chance that a fire does occur, the local fire department will be notified immediately. Additional calls to the main office of Krazan & Associates will be made. The project director would then notify the client.

11.3 Operations Shutdown

Under certain extremely hazardous situations the Task Leader, Project Director, Task Safety Officer, may request that field operations be temporarily suspended while the underlying hazard is corrected or controlled.

During any sampling or drilling activity breathing zone PID measurements for hydrocarbons will be performed. If these levels exceed 50 ppmv, detector tubes will be used to further quantify the benzene vapors present. If the level of benzene is detected above 0.5 ppmv or PID readings are consistently in excess of 50 ppmv, respirators will be required and monitoring will be performed every 30 minutes. If PID measurements above 1400 ppmv occur in general area or at well head, a potential fire or explosion hazard may exist. Under these circumstances activities will be stopped until these levels are brought down. This may be accomplished by containerizing contaminated soils or liquids, covering contaminated soil, foam, visquene, or with clean soil to isolate the source.

11.4 Community Protection

To assure the community is not affected by our investigation, upwind and downwind monitoring with the PID will be performed if the general work area hydrocarbon levels exceed 100 ppmv. If site downwind

monitoring indicates persistent levels above 50 ppmv at the perimeter of the work area, work will be shut down until PID readings drop below 50 ppmv. Alternately the exclusion zone may be expanded to provide additional community protection.

12.0 RECORD KEEPING REQUIREMENT

The following record keeping requirements will be maintained in the health and safety or program file indefinitely:

- Copy of this Health and Safety plan
- Health and Safety training certification forms
- Written respiratory protection program
- Respirator training certification
- Any accident/illness report forms Documentation of employees medical ability to perform work and wear respirators



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CONSTRUCTION TESTING AND INSPECTION

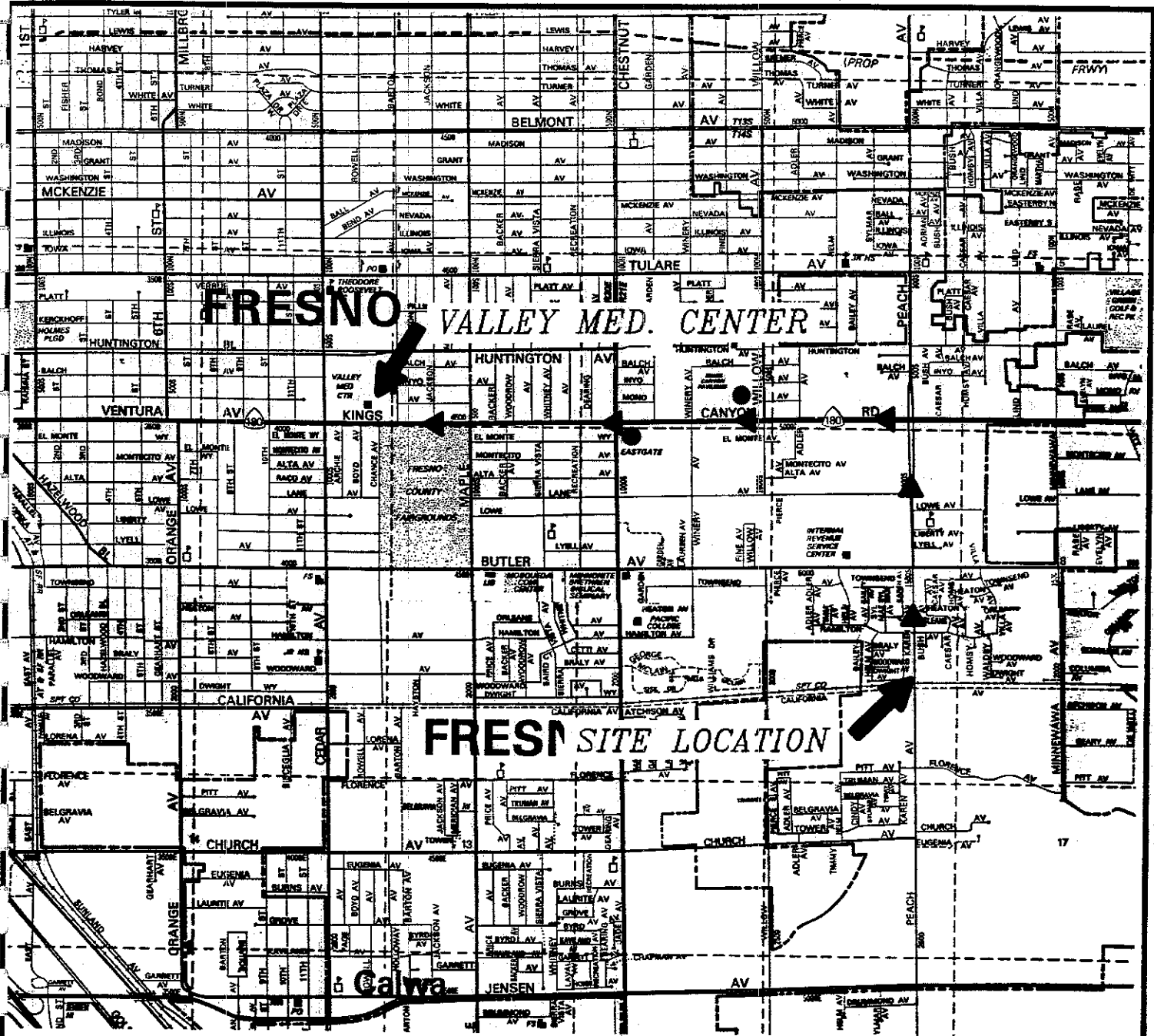
**KRAZAN & ASSOCIATES, INC.
HEALTH AND SAFETY PLAN
FIELD PERSONNEL RELEASE FORM**

I, _____ do hereby confirm that I have read and understand the health and safety plan for Project Number 014-95-132, USDA facility located at 2021 South Peach Avenue in Fresno, California. I do agree to follow this plan, and to make every effort to make the work place safe. I will report any health or safety hazard that I observe to the Safety Task Leader, Project Safety Officer, or the Project Director.

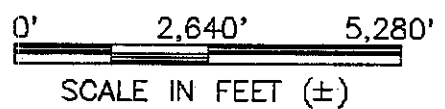
I do agree to defend, indemnify, and hold harmless Krazan & Associates, Inc., its owners, employees, representatives, clients, and the property owner for any accidents, sickness, or injuries resulting from the violation, alleged violation, or non-compliance of this Health & Safety Plan.

Name: _____ Title: _____

Signature: _____ Date: _____



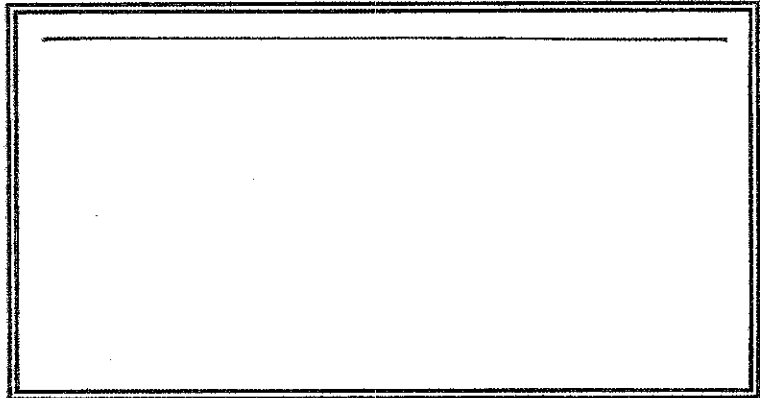
HOSPITAL EMERGENCY ROUTE



USDA AGRICULTURAL
RESEARCH SERVICES FACILITY
2021 S. PEACH AVE.
FRESNO, CA

Scale:	AS SHOWN	Date:	8-95
Drawn by:	J.A.G.	Approved by:	N.S.
Project No.	01495132	Figure No.	

Krazan
 ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SPECIALISTS
Offices Serving the Western United States



PR 047351
Date Received 08/28/95 *Done*
Priority 3 Type WP *8/29/95*
RW

RP

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MAR 29 1996

Environmental Health System
Fresno Co Community Health Dept.



**SOIL EXCAVATION AND REMEDIATION
FORMER UNDERGROUND STORAGE TANK SITE
USDA AGRICULTURAL RESEARCH SERVICES
2021 SOUTH PEACH AVENUE
FRESNO, CALIFORNIA**

Project No. 014-95132

March 27, 1996

Prepared for:
Mr. Steve Deathriage
Kroeker, Inc.
527 West Browning Avenue
Fresno, California 93704-1803
(209) 439-0604

Prepared by:
Krazan & Associates, Inc.
215 West Dakota Avenue
Clovis, California 93612
(209) 348-2200

 **Krazan** & ASSOCIATES, INC.

GEOTECHNICAL ENGINEERING • ENVIRONMENTAL ENGINEERING
CONSTRUCTION TESTING AND INSPECTION

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Project No. 014-95132

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March 27, 1996

Project No. 014-95132

**SOIL EXCAVATION AND REMEDIATION
FORMER UNDERGROUND STORAGE TANK SITE
USDA AGRICULTURAL RESEARCH SERVICES
2021 SOUTH PEACH AVENUE
FRESNO, CALIFORNIA**

1.0 INTRODUCTION

The following report summarizes the findings of Soil Excavation and Remediation of petroleum hydrocarbon-impacted soil associated with two former underground storage tanks (USTs) at the United States Department of Agriculture (USDA) Agricultural Research Services property. The USDA site is located at 2021 South Peach Avenue in Fresno, California.

This remediation project was conducted at the request of Mr. Steve Deathriage of Kroeker, Inc. (Kroeker). Kroeker requested that Krazan & Associates, Inc. (Krazan) prepare a Soil Excavation and Remediation workplan for the subject site. The work was conducted in general accordance with Krazan's August 25, 1995 workplan and workplan addendum letter, dated September 27, 1995, to Fresno County Community Health Department, Environmental Health Services (EHS). The workplan was approved on October 9, 1995, by Ms. Lynn Klinkby of the Fresno County EHS.

2.0 SITE LOCATION AND DESCRIPTION

The subject site is located at 2021 South Peach Avenue, south of the Butler and Peach Avenue intersection in Fresno, California (Figure 1, Vicinity Map). According to the United States Geological Survey, 7.5 minute Malaga, California topographic map, photorevised 1981, the subject site is located

within the southwest quarter of Section 8, Township 14 South, Range 21 East, Mount Diablo Baseline and Meridian.

The site is an USDA facility and is used for agricultural research purposes. Structures at the subject site include an office, brick buildings, greenhouses, and several sheds. The former USTs consisted of three 300-gallon tanks and two 150-gallon tanks, and were previously used to store heating oil. The approximate locations of the USTs are shown on Figure 2, Site Plan. Single-family residences are located on properties to the north, south, east, and west of the subject site.

3.0 GEOLOGIC AND HYDROGEOLOGIC SETTING

The topography of the site is relatively level. The project site is located within the San Joaquin Valley, which is situated between the Sierra Nevada and Coast Ranges of California. The San Joaquin Valley comprises the southern portion of the Great Valley geomorphic province.

Alluvial fans are the dominant geomorphic feature in the Fresno area. The project site lies within the lower portion of a compound alluvial fan of intermittent streams north of the Kings River, and is underlain by recent alluvial fan deposits. The alluvial fan deposits underlying Fresno form the groundwater aquifer. Groundwater flow has been historically to the southwest based upon review of Fresno Irrigation District (FID) maps titled "Groundwater Table, Lines of Equal Elevation." Groundwater occurs at a depth of approximately 90 feet below ground surface (bgs) in the vicinity of the subject site.

4.0 BACKGROUND

On May 15, 1995, Kroeker removed five fuel oil USTs from the subject site. Tank Nos. 1 and 2 were reported to have a capacity of 150 gallons each, and Tank Nos. 3 through 5 were reported to have a capacity of 300 gallons each. The USTs were in fair to good condition. The UST removal operations were conducted under the direction of Mr. David Van Dyne of the Fresno County EHS. The UST removal contractor was Kroeker and Krazan was present to collect the soil samples. No soil discoloration was present in the soil beneath the USTs. However, petroleum hydrocarbon odors were noted in soil samples collected from beneath UST Nos. 4 and 5. In addition, the presence of hardpan was noted at a depth of approximately 5.5 feet bgs in the excavation associated with UST No. 5.

Under the direction of the Fresno County EHS, one soil sample was collected from a depth of approximately three feet below the bottom of UST Nos. 1 and 2 (removed from the same excavation), and

one sample was collected from beneath each of the three 300-gallon USTs. The four soil samples were submitted to Castle Analytical Laboratory, a State-certified environmental laboratory, located in Winton, California. Each sample was analyzed for the presence and concentration of total petroleum hydrocarbons as referenced to diesel (TPH-D) by LUFT GC/FID methodology and total recoverable petroleum hydrocarbons (TRPH) by EPA Method 418.1. The May 15, 1995 tank removal analytical results are listed in Table I.

TABLE I
Concentration of Petroleum Constituents in Soil
Tank Removal Soil Sampling
USDA Agricultural Research Services
2021 South Peach Avenue
Fresno, California
May 15, 1995 Sampling

(Concentrations are expressed in milligrams per kilogram, mg/kg)

Analyses	Sample S1 (Tank Nos. 1 & 2)	Sample S2 (Tank No. 3)	Sample S3 (Tank No. 4*)	Sample S4 (Tank No. 5**)
TPH-D	ND(<1.0)	4.2	120	25,000
TRPH	ND(<15)	ND	ND	17,000

ND = None detected at the detection limit noted.
 TPH-D = Total petroleum hydrocarbons as referenced to diesel.
 TRPH = Total recoverable petroleum hydrocarbons.
 * = UST No. 4
 ** = UST No. 5

Review of the UST removal analytical results indicated that detectable concentrations of petroleum constituents were present in soil samples collected from beneath three of the five UST locations: 1) concentrations of TPH-D were detected in soils beneath the former UST located on the north side of Building 011 (Tank No. 3); 2) beneath the former UST location on the south side of Building 013 (Tank No. 4); and 3) beneath the former UST located near the northwest corner of Building 010 (Tank No. 5). Based upon the results of the soil samples obtained during the UST removal, further investigation of soils in the vicinity of Tank Nos. 1, 2, and 3 did not appear warranted. However, further investigation and remediation of soils in the vicinity of UST Nos. 4 and 5 was required by the Fresno County EHS.

In a letter dated July 27, 1995, the Fresno County EHS requested that the USDA remediate the contamination associated with UST Nos. 4 and 5. The USDA, the current property owner, requested that Kroeker, the UST removal contractor, excavate and remove soil containing petroleum hydrocarbons from the two UST locations and dispose of impacted soil off-site.

5.0 PURPOSE AND SCOPE OF THE SOIL EXCAVATION AND REMEDIATION

The purpose of the soil excavation was to remove soil containing petroleum hydrocarbons in the subsurface soils beneath the former locations of UST Nos. 4 and 5.

The scope of the soil remediation included excavating and removing impacted soil with a backhoe, collecting and analyzing soil samples, analyzing and profiling the excavated and stockpiled soil for off-site disposal, backfilling and compacting soil in the excavations, and preparing a soil remediation report.

6.0 FINDINGS OF THE SOIL EXCAVATION AND REMEDIATION

Subsurface soils encountered during the excavation and remediation of impacted soils associated with the two former UST excavations comprised primarily of fine to medium grained sands and silty fine sand.

Soil excavation and removal at the project site was performed by Kroeker on November 14, 1995 and January 5, 1996. The former USTs were located immediately adjacent to existing buildings, and the extent of each former UST excavation was limited by the presence of the buildings and foundations (Figure 3, Excavation and Sample Location Map). Approximately 15 cubic yards of in-place petroleum hydrocarbon-impacted soil were removed from the area of the two former USTs. The excavated soil was stockpiled on plastic sheeting pending final excavation of petroleum hydrocarbon impacted soil. The excavation and removal of petroleum hydrocarbon-impacted soil was documented through the collection and analysis of soil samples. A Krazan representative was present on-site during the excavation to observe and collect soil samples for analysis. A copy of the Certified Analytical Results is included in Appendix A.

6.1 UST No. 4 Excavation

The November 14, 1995 excavation of UST No. 4 was completed to a depth of approximately eight feet bgs and was four-feet by five-feet in size. Approximately five cubic yards of impacted soil were removed from this excavation. As outlined in the workplan, soil samples collected from the excavation base and the north, south, and west excavation sidewalls were submitted for analysis of petroleum hydrocarbon constituents.

The results of the November 14, 1996 excavation base sample reported 4,100 milligrams per kilogram (mg/kg) TPH-D and 4,400 mg/kg TRPH, and the west sidewall sample reported 2,400 mg/kg TPH-D and 3,000 mg/kg TRPH. In addition, results of the north sidewall sample reported 24 mg/kg and

25 mg/kg for TRPH and TPH-D, respectively. The results of the south sidewall sample were non-detected for TRPH and TPH-D. As discussed in Section 6.0 of this report, the presence of a building adjacent east and west of the former UST No. 4 limited the extent of its excavation. Soil sample depths and locations are shown on Figure 3. Results of the November 14, 1995 and January 5, 1996 chemical analyses are summarized in Table II.

TABLE II
Concentration of Petroleum Constituents in Soil
UST No. 4 Excavation Soil Sampling
USDA Agricultural Research Services
2021 South Peach Avenue
Fresno, California
November 14, 1995 and January 5, 1996 Sampling
(Concentrations are expressed in milligrams per kilogram, mg/kg)

Analyses	Date	Sample X-4B (UST No. 4)	Sample X-4NE (UST No. 4)	Sample X-4W (UST No. 4)	Sample X4-SE (UST No. 4)
TPH-D	11-15-95	4100	25	2400	ND(<1)
	1-05-96*	ND(<1)	ND(<1)	NA	NA
TRPH	11-15-95	4400	24	3000	ND(<15)
	1-05-96*	ND(<15)	ND(<15)	NA	NA

NA = Not analyzed
 ND = None detected at the detection limit noted.
 TPH-D = Total petroleum hydrocarbons as referenced to diesel.
 TRPH = Total recoverable petroleum hydrocarbons.
 * = January samples are designated on the analytical reports as X-4B2 and X-4NE2

On January 5, 1996, Kroeker conducted additional excavation along the north sidewall and from the base of the UST No. 4 excavation, removing approximately one cubic yard of impacted soil. Due to the presence of a building adjacent the west side of the excavation, additional soil removal and sampling was completed only from the excavation base and along the north sidewall. One soil sample was collected from each of the two areas and submitted for chemical analysis. The results of both samples reported non-detected for TRPH and TPH-D. Results of the January 5, 1996 chemical analyses are summarized in Table III.

6.2 UST No. 5 Excavation

On November 14, 1995, the former UST No. 5 excavation was completed to depths ranging between 2.5 feet bgs and 6.5 feet bgs, with overall approximate surface dimensions of 6.5-feet by 6-feet. The extent of this excavation was limited to the east and the south, due to the presence of an adjacent

building and stairs. The excavation extended up to, but not beneath the building and stairs. Approximately seven cubic yards of petroleum hydrocarbon impacted soil were removed from this excavation. Soil samples collected from the base and sidewalls of the excavation were submitted for analysis of petroleum hydrocarbon constituents. Four of the five samples (base, north, east, and south sidewalls) reported TPH-D concentrations between 1.1 mg/kg and 6.5 mg/kg. The result of the west sidewall sample was non-detected for TPH-D. The TRPH results of the five samples were non-detected. As discussed above, the lateral extent of the UST No. 5 excavation was limited by the presence of a building adjacent east and south. Therefore, additional excavation and sampling was not conducted on the east or south sidewalls of the excavation. The sample depths and locations are indicated on Figure 3. Results of the November 14, 1995 and January 5, 1996 chemical analyses are summarized in Table III.

TABLE III
 Concentration of Petroleum Constituents in Soil
 UST No. 5 Excavation Soil Sampling
 USDA Agricultural Research Services
 2021 South Peach Avenue
 Fresno, California
 November 14, 1995 and January 5, 1996 Sampling
 (Concentrations are expressed in milligrams per kilogram, mg/kg)

Analyses	Date	Sample X-5B (UST No. 5)	Sample X-5S (UST No. 5)	Sample X-5E (UST No. 5)	Sample X-5W (UST No. 5)	Sample X-5N (UST No. 5)
TPH-D	11-15-95	3.0	1.1	6.5	ND(<1)	2.4
	1-05-96*	ND(<15)	NA	NA	NA	ND(<1)
TRPH	11-15-95	ND(<15)	ND(<15)	ND(<15)	ND(<15)	ND(<15)
	1-05-96*	ND(<15)	NA	NA	NA	ND(<15)

NA = Not analyzed
 ND = None detected at the detection limit noted.
 TPH-D = Total petroleum hydrocarbons as referenced to diesel.
 TRPH = Total recoverable petroleum hydrocarbons.
 * = January samples are designated on the analytical reports as X-5B2 and X-5N2

Based on the results of chemical analysis, Kroeker removed an additional two cubic yards of impacted soil on January 5, 1996. Following the removal of the additional soil, one soil sample obtained from the excavation base and one from the north sidewall were submitted for chemical analysis. The analytical results of both samples reported non-detected for TRPH and TPH-D. Results of the January 5, 1996 chemical analyses are summarized in Table III.

6.3 Stockpile Soil Sampling

Approximately 15 cubic yards of in-place petroleum hydrocarbon impacted soil removed from the former UST excavations were stockpiled and covered with plastic sheeting. Prior to removing the soil from the project site, one composite sample was collected from the stockpile and submitted for profiling analysis of total lead, TRPH, and TPH-D. The analytical results for the stockpile composite sample reported 7 mg/kg, 630 mg/kg, and 550 mg/kg for total lead, TRPH, and TPH-D, respectively. The analytical results of the composite soil sample were used for profiling purposes and for assisting the USDA to select a recycling facility for off-site disposal of the impacted soil. The results of the composite sample indicated that the soil could be disposed as non-hazardous material. The impacted soil was transported to Hondo, Inc. of Bakersfield, California, on February 8, 1996 for disposal and recycling. A copy of the weight tickets for the excavated soil shipped to Hondo, Inc. is provided in Appendix B. Copies of the analytical laboratory results for the composite sample are provided in Appendix A.

6.4 Excavation Backfill and Compaction

Following the completion of the excavation, soil sampling and analysis, removal and stockpiling of petroleum hydrocarbon impacted soil, and backfilling procedures were implemented by Kroeker. On February 8, 1996, clean backfill soil was obtained from off-site by Kroeker and the backfill soils were placed into the excavations and wheel-roll compacted. Compaction testing of the backfilled soil was not performed by Kroeker.

6.5 Health and Safety

The work conducted at the site in conjunction with the soil excavation and remediation was performed in general accordance with the Site Health and Safety Guidelines presented in the workplan.

7.0 DISCUSSION OF FINDINGS

A substantial portion of the soils containing petroleum hydrocarbons were removed from the former UST No. 4 and UST No. 5 locations. However, building and building foundations limited the lateral extent of the excavations. Consequently, residual concentrations of TPH-D and TRPH remain in-place in soils beneath the building adjacent to the former UST No. 4 excavation, and low concentrations of TPH-D impacted soil were left in-place beneath the building adjacent to the UST No. 5 excavation.

Approximately six cubic yards of petroleum hydrocarbon impacted soil containing TPH-D and TRPH concentrations were removed from the area of the former UST No. 4 excavation. The vertical extent of petroleum hydrocarbons at the former location of UST No. 4 appears to attenuate to non-detect between eight and twelve feet bgs (as defined by the non-detectable results from the November 11, 1995 sample X-4B collected from 12 feet bgs). Similarly, the maximum vertical and lateral extent of impacted soils in the northern and southern portions of the excavation appears to have been removed as demonstrated by the non-detected analytical results in the north sidewall (January 5, 1996 sample X-4NE2 collected from 8 feet bgs) and south sidewall (January 5, 1996 sample X-SE2 collected from 8 feet bgs).

TPH-D and TRPH were detected in the November 15, 1995 sample X-4W at concentrations of 2400 mg/kg and 3000 mg/kg, respectively. Based on the analytical results of the samples collected from the north and south sidewalls and the bottom of the UST No. 4 excavation, it appears that the soils containing TPH-D and TRPH in the west sidewall would attenuate vertically to non-detected between approximately eight and twelve feet bgs. In addition, relative to the lateral attenuation distance noted for TPH-D and TRPH results reported for the north and south sidewall samples, it appears that the petroleum hydrocarbons would laterally attenuate within the same approximate distance of four feet from the western excavation sidewall. Based on this interpolation and excavation calculations, approximately three to four cubic yards of impacted soil remain in place beneath the west adjacent building.

Approximately nine cubic yards of petroleum hydrocarbon impacted soil containing TPH-D and TRPH concentrations were removed from the area of the former UST No. 5 excavation. The vertical extent of petroleum hydrocarbons in the base of the former UST No. 5 excavation appears to attenuate between 6.5 feet and 8 feet bgs, as defined by the non-detectable TPH-D and TRPH results for the January 5, 1996 sample X-5B2 collected from a depth of 8 feet bgs.

The north-south lateral extent of impacted soils in the excavation sidewalls appear to have been removed, as defined by the non-detectable TPH-D and TRPH results in January 5, 1996 sample X-5N2 collected from 2.5 feet bgs, and a TPH-D concentration of 1.1 mg/kg in November 15, 1995 sample X-5S collected from 6.5 feet bgs. Due to the presence of the adjacent building and stairs along the east and south walls of the excavation, a small quantity of impacted soil containing low concentrations of TPH-D (between 1.1 and 6.5 mg/kg) remains in-place beneath the building. Based upon the analytical results and field observations, it appears that the majority of petroleum hydrocarbon impacted soil has been removed from the former UST No. 5 excavation.

During the course of the excavation process, approximately 15 cubic yards of impacted soil were removed from the former UST Nos. 4 and 5 excavations. One composite soil sample was obtained from the stockpile and analyzed for total lead and petroleum hydrocarbon compounds. Based upon the analytical

results, the impacted soil was disposed as non-hazardous material at the Hondo, Inc. facility in Bakersfield, California.

Review of groundwater data for the general vicinity of the subject property indicates the depth to groundwater beneath the site is approximately 90 feet bgs. In addition, it appears that the majority of petroleum hydrocarbon impacted soil at the former location of UST No. 4 extended to a maximum depth of 12 feet bgs beneath the two former USTs. The difference of these two data points indicates that approximately 78 feet separates the base of the soils containing petroleum hydrocarbons and the groundwater table. The impacted soil remaining in-place is covered by buildings, and a majority of the ground surface at the site is paved, which would substantially reduce the downward vertical migration that may occur due to percolating rainwater. Further, diesel and fuel oil petroleum constituents are higher molecular weight petroleum hydrocarbons and are relatively immobile in the subsurface environment. Based on the above noted observations, it appears that the potential for residual petroleum hydrocarbons in the soil near the former location of UST No. 4 to migrate vertically and impact groundwater is very unlikely.

8.0 CONCLUSIONS

Based on review of the information obtained during the course of the field work, which included soil excavation and removal and laboratory analyses, the following conclusions have been derived:

- 1) Subsurface soils in the vicinity of the former USTs consist primarily of interbedded fine to medium sand and silty fine sand.
- 2) Approximately six cubic yards of soil containing TPH-D and TRPH concentrations were removed from the former UST No. 4 excavation to an approximate maximum depth of 12 feet bgs. It appears that the majority of the petroleum hydrocarbon impacted soil was removed from beneath the location of the former UST No. 4 location. However, due to the constraints of adjacent building foundations and based upon analytical results, approximately three to four cubic yards of impacted soil were left in-place beneath the building on the west side of the excavation. A review of site-specific characteristics combined with the results of the Soil Excavation and Remediation suggests that the volume and concentrations of TPH-D and TRPH impacted soil can be left in-place without

threatening groundwater. Therefore, no further action is required at the location of former UST No. 4, and no further regulatory involvement at the site is warranted.

- 3) Approximately nine cubic yards of soil containing TPH-D and TRPH concentrations were removed from the former UST No. 5 excavation to an approximate depth of eight feet bgs. However, due to the constraints of an adjacent building and stairs, a small quantity of TPH-D impacted soil remains in-place along the east and south walls of the excavation. Based upon the results of chemical analyses, it appears that the majority of petroleum hydrocarbon impacted soil associated with former UST No. 5 was removed during the soil remediation process. Therefore, no further action is warranted at the location of former UST No. 5, and no further regulatory involvement at the site is warranted.
- 4) On February 8, 1996, approximately 15 cubic yards of non-hazardous petroleum hydrocarbon impacted soil removed from the former UST excavations was transported off-site for recycling.

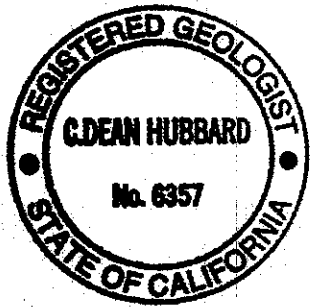
9.0 LIMITATIONS

The findings of this report were based upon the results of field and laboratory investigations, coupled with the interpretation of subsurface conditions associated with our soil borings and hand auger holes. Therefore, the data are accurate only to the degree implied by review of the data and by professional interpretation.

Chemical testing was done by laboratories certified by the State of California, Department of Health Services. The results of the chemical tests are accurate only to the degree of care used to ensure the testing accuracy and the representative nature of the soil samples obtained.

The findings presented in this report were based on field observations, review of chemical analysis, and review of available data. Therefore, the data obtained are clear and accurate only to the degree implied by the sources and methods used. The information presented herewith was based on professional interpretation using presently accepted methods with a degree of conservatism deemed proper as of this report date. It is not warranted that such data cannot be superseded by future geotechnical or technological developments .

If you have any questions or if we can be of further assistance, please do not hesitate to contact our Environmental Division Office at (209) 348-2200.



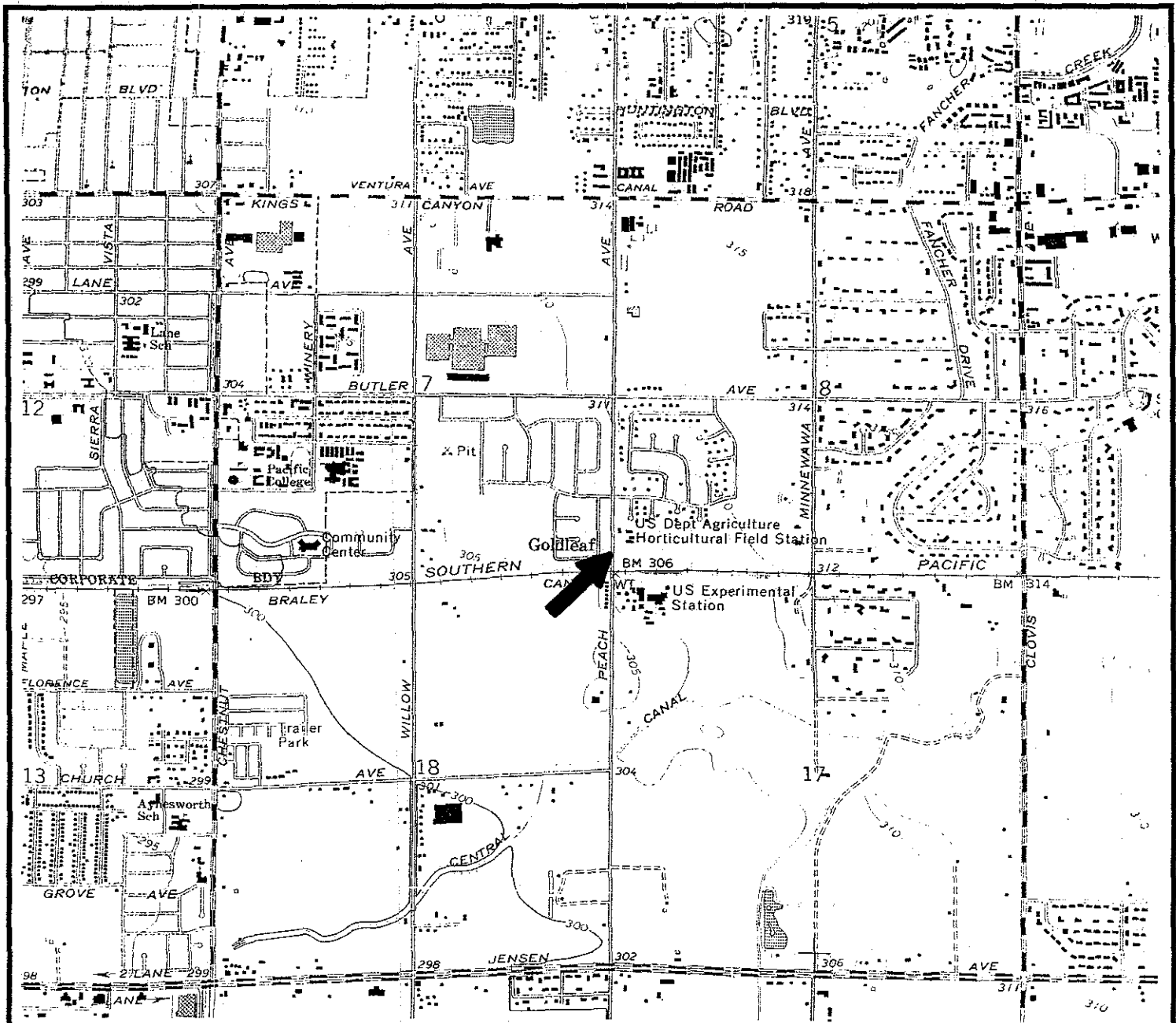
Respectfully submitted,
KRAZAN & ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read "C. Dean Hubbard".

C. Dean Hubbard, R.G.
Registered Geologist #6357

CDH/cmc

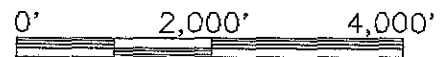
3c: herewith



VICINITY MAP

MAP SOURCE:

U.S.G.S. "MALAGA, CA" QUADRANGLE
 7.5 MINUTE SERIES (TOPO) DATED: 1964,
 PHOTOREVISED: 1981.



SCALE IN FEET (±)

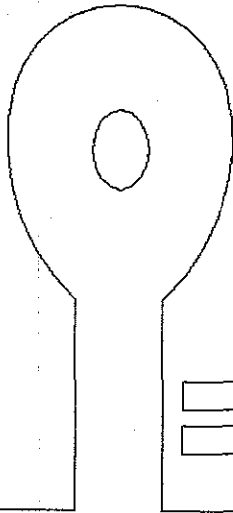
← SITE LOCATION

USDA AGRICULTURAL RESEARCH SERVICES FACILITY 2021 S. PEACH AVE. FRESNO, CA	Scale: AS SHOWN	Date: 8-95	<p>ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SPECIALISTS</p> <p>Offices Serving the Western United States</p>
	Drawn by: J.A.G.	Approved by: N.S.	
	Project No. 01495132	Figure No. 1	

S. PEACH AVE.



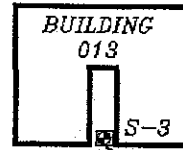
BUILDING 09



TEMPORARY SOIL STOCKPILE AREA

UST NO. 5
(SEE DETAIL MAP, FIG. 3)

S-4



BUILDING 013

S-3

UST NO. 4.
(SEE DETAIL MAP, FIG. 3)



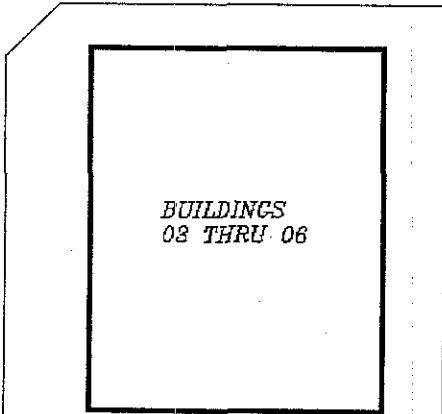
BUILDING 010



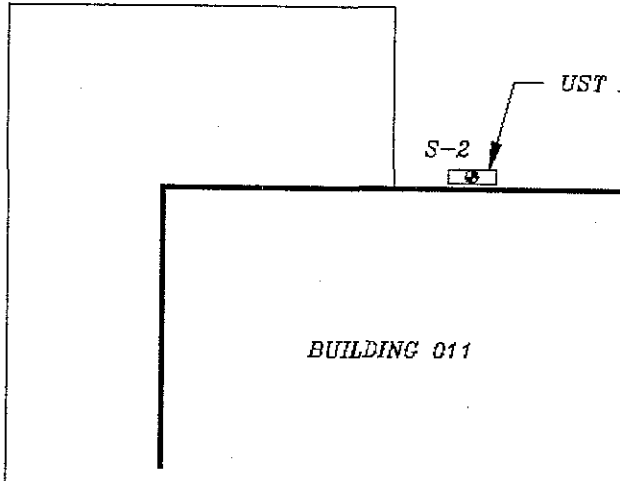
ABOVE-GROUND STORAGE TANKS

S-1

UST'S NO. 1 & NO. 2



BUILDINGS 03 THRU 06



BUILDING 011

S-2

UST NO. 3

SITE PLAN

● SAMPLE LOCATION (MAY 15, 1995)



USDA AGRICULTURAL RESEARCH SERVICES FACILITY
2021 S. PEACH AVE.
FRESNO, CA

Scale: AS SHOWN
Drawn by: J.A.G.
Project No. 01495132

Date: 3-96
Approved by: C.D.H.
Figure No. 2

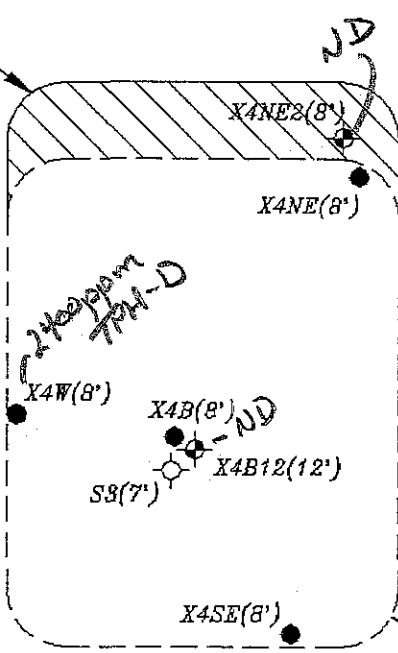
 **Krazan**

ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SPECIALISTS
Offices Serving the Western United States

OUTLINE OF ADDITIONAL
EXCAVATION JAN. 5, 1996

GREENHOUSE

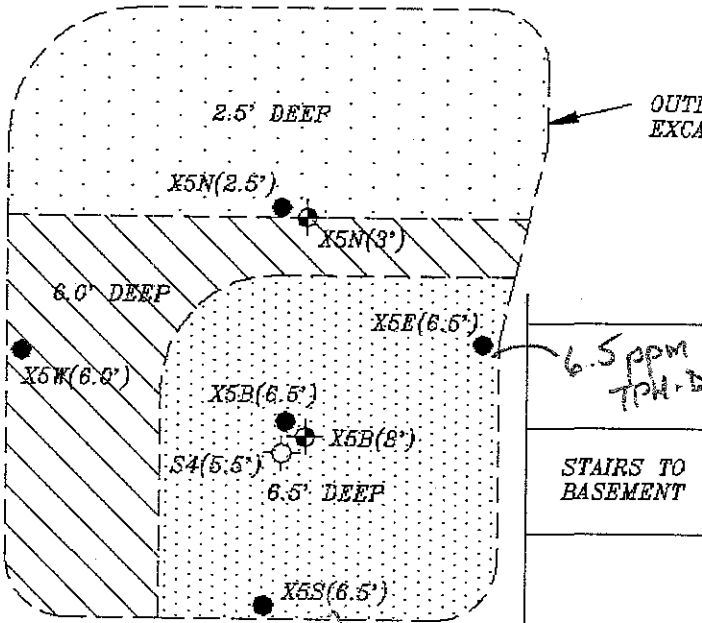
GREENHOUSE



OUTLINE OF NOV. 5, 1995
EXCAVATION

UST NO. 4

EXCAVATION & SAMPLE LOCATION MAP

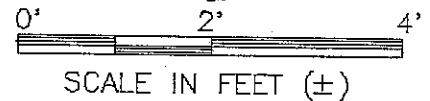


- X4B12(12') LOCATION & DEPTH OF SAMPLE COLLECTED JAN. 5, 1996
- X4B(8') LOCATION & DEPTH OF SAMPLE COLLECTED NOV. 15, 1995
- S4(5.5') LOCATION & DEPTH OF SAMPLE COLLECTED MAY 15, 1995

BUILDING 010

1.1 ppm
TPH-D

STAIRS TO
BASEMENT



UST NO. 5

FORMER UST SITE
USDA FACILITY
2021 S. PEACH AVE.
FRESNO, CA

Scale: AS SHOWN	Date: 3-96
Drawn by: J.A.G.	Approved by: C.D.H.
Project No. 01495132	Figure No. 3

Krazan
ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SPECIALISTS
Offices Serving the Western United States

CASTLE ANALYTICAL LABORATORY

Environmental Testing Services
Certificate No. 2079

P.O. Box 1360, Winton, CA. 95388

Phone: (209) 384-2930
Fax: (209) 384-1507

Krazan & Associates, Inc. 215 W. Dakota Avenue Clovis, CA 93612 Attn: Nathan Stoopes	Client Project ID: 014-95132 Reference Number: 581 Sample Description: Soil Sample Prep/Analysis Method: LUFT Lab Numbers: 581-6S, 7S, 8S, 9S, 10S	Sampled: 11-14-95 Received: 11-15-95 Extracted: 11-15-95 Analyzed: 11-15-95 Reported: 11-22-95
---	--	--

TOTAL PETROLEUM HYDROCARBONS -DIESEL RANGE

ANALYTE	REPORTING LIMIT (mg/kg)	SAMPLE ID X-4B (mg/kg)	SAMPLE ID X-4NE (mg/kg)	SAMPLE ID X-4W (mg/kg)	SAMPLE ID X-4SE (mg/kg)	SAMPLE ID SC (mg/kg)
DIESEL RANGE HYDROCARBONS	1.0	4100	25	2400	ND	550
Report Limit Multiplication Factor:		100	10	100	1	100

Instrument ID:	HP-GC1	HP-GC1	HP-GC1	HP-GC1	HP-GC1
----------------	--------	--------	--------	--------	--------

Practical Quantitation Limit = Reporting Limit x Report Limit Multiplication Factor
Analytes reported as ND were not detected or below the Practical Quantitation Limit

ANALYST: Clari J. Cone
Clari J. Cone

APPROVED BY: Jaynes C. Phillips
Jaynes C. Phillips
Environmental Lab Director

CASTLE ANALYTICAL LABORATORY

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Fax: (209) 384-1507

Krazan & Associates, Inc. 215 W. Dakota Avenue Clovis, CA 93612 Attn: Nathan Stoope	Client Project ID: 014-95132 Reference Number: 581 Sample Description: Soil Sample Prep/Analysis Method: LUFT Lab Numbers: 581-1S, 2S, 3S, 4S, 5S	Sampled: 11-14-95 Received: 11-15-95 Extracted: 11-15-95 Analyzed: 11-15-95 Reported: 11-22-95
--	---	--

TOTAL PETROLEUM HYDROCARBONS -DIESEL RANGE

ANALYTE	REPORTING LIMIT (mg/kg)	SAMPLE ID X-5B (mg/kg)	SAMPLE ID X-5S (mg/kg)	SAMPLE ID X-5E (mg/kg)	SAMPLE ID X-5W (mg/kg)	SAMPLE ID X-5N (mg/kg)
DIESEL RANGE HYDROCARBONS	1.0	3.0	1.1	6.5	ND	2.4
Report Limit Multiplication Factor:		1	1	1	1	1

Instrument ID:	HP-GC1	HP-GC1	HP-GC1	HP-GC1	HP-GC1
----------------	--------	--------	--------	--------	--------

Practical Quantitation Limit = Reporting Limit x Report Limit Multiplication Factor
Analytes reported as ND were not detected or below the Practical Quantitation Limit

ANALYST: Clari J. Cone
Clari J. Cone

APPROVED BY: James C. Phillips
James C. Phillips
Environmental Lab Director

CASTLE ANALYTICAL LABORATORY

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Certificate #2079

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Fax: (209) 384-1507

Krazan & Associates, Inc.
215 W. Dakota Avenue
Clovis, CA 93612
Attn: Nathan Stoopes

Client Project ID: 014-95132
Reference Number: 581
Matrix: Soil
Analyst: Clari Cone

Method: TPH-Diesel
Instrument ID: HP-GC1
Prepared: 11-15-95
Analyzed: 11-15-95
Reported: 11-22-95

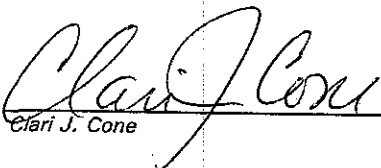
QUALITY CONTROL DATA REPORT

ANALYTE	TPH-Diesel
Spike Concentration:	5.00
Units:	mg/kg
LCS Batch #:	TPHD-N155
LCS % Recovery:	89.2%
Control Limits:	60-130 %
<hr/>	
MS/MSD Batch #:	TPHD-N155
MS % Recovery:	83.4%
MSD % Recovery:	91.8%
Relative % Difference:	3.67%

Please Note:

The LCS (Laboratory Check Sample) is a control sample of known, interferent free matrix that is fortified with representative analytes and analyzed using the same reagents, preparation and analytical methods employed for the samples. The LCS % recovery is used for validation of sample batch results. Due to matrix effects, the QC limits and recoveries for MS/MSD's are advisory only and are not used to accept or reject batch results.

ANALYST:


Clari J. Cone

APPROVED BY:


James C. Phillips
Environmental Lab Director

CASTLE ANALYTICAL LABORATORY

Environmental Testing Services
Certificate No. 2079

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Fax: (209) 384-1507

Krazan & Associates, Inc.
215 W. Dakota Avenue
Clovis, CA 93612
Attn: Nathan Stoopes

Client Project ID: 014-95132
Reference Number: 581
Sample Description: Soil
Sample Prep/Analysis Method: LUFT
Lab Numbers: 581-6S, 7S, 8S, 9S, 10S

Sampled: 11-14-95
Received: 11-15-95
Extracted: 11-16-95
Analyzed: 11-17-95
Reported: 11-22-95

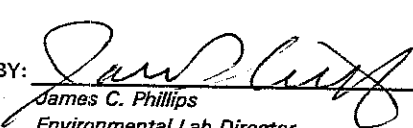
TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

ANALYTE	REPORTING LIMIT (mg/kg)	SAMPLE ID	SAMPLE ID	SAMPLE ID	SAMPLE ID	SAMPLE ID
		X-4B (mg/kg)	X-4NE (mg/kg)	X-4W (mg/kg)	X-4SE (mg/kg)	SC (mg/kg)
PETROLEUM HYDROCARBONS	15	4400	24	3000	ND	630
Report Limit Multiplication Factor:		100	1	100	1	10

Instrument ID:	IR-SPEC	IR-SPEC	IR-SPEC	IR-SPEC	IR-SPEC
----------------	---------	---------	---------	---------	---------

Practical Quantitation Limit = Reporting Limit x Report Limit Multiplication Factor
Analytes reported as ND were not detected or below the Practical Quantitation Limit

ANALYST: 
James C. Phillips

APPROVED BY: 
James C. Phillips
Environmental Lab Director

CASTLE ANALYTICAL LABORATORY

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Fax: (209) 384-1507

Krazan & Associates, Inc. 215 W. Dakota Avenue Clovis, CA 93612 Attn: Nathan Stoopes	Client Project ID: 014-95132 Reference Number: 581 Sample Description: Soil Sample Prep/Analysis Method: LUFT Lab Numbers: 581-1S, 2S, 3S, 4S, 5S	Sampled: 11-14-95 Received: 11-15-95 Extracted: 11-16-95 Analyzed: 11-17-95 Reported: 11-22-95
---	---	--


TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

ANALYTE	REPORTING LIMIT (mg/kg)	SAMPLE ID	SAMPLE ID	SAMPLE ID	SAMPLE ID	SAMPLE ID
		X-5B (mg/kg)	X-5S (mg/kg)	X-5E (mg/kg)	X-5W (mg/kg)	X-5N (mg/kg)
PETROLEUM HYDROCARBONS	15	ND	ND	ND	ND	ND
Report Limit Multiplication Factor:		1	1	1	1	1

Instrument ID:	IR-SPEC	IR-SPEC	IR-SPEC	IR-SPEC	IR-SPEC
----------------	---------	---------	---------	---------	---------

Practical Quantitation Limit = Reporting Limit x Report Limit Multiplication Factor
Analytes reported as ND were not detected or below the Practical Quantitation Limit

ANALYST: 
James C. Phillips

APPROVED BY: 
James C. Phillips
Environmental Lab Director

CASTLE ANALYTICAL LABORATORY

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Fax: (209) 384-1507

Krazan & Associates, Inc.
215 W. Dakota Avenue
Clovis, CA 93612
Nathan Stoope

Client Project ID: 014-95132
Reference Number: 581
Matrix: Soil
Analyst: James Phillips

Method: 418.1M
Instrument ID: IR SPEC-1
Prepared: 11-16-95
Analyzed: 11-17-95
Reported: 11-22-95

QUALITY CONTROL DATA REPORT

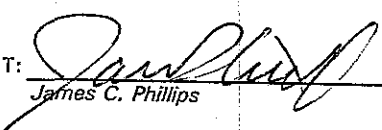
ANALYTE PETROLEUM HYDROCARBONS

Spike Concentration:	50
Units:	mg/kg
LCS Batch #:	TRPH-N165
LCS % Recovery:	100%
Control Limits:	60-130 %
MS/MSD Batch #:	TRPH-N165
MS % Recovery:	82%
MSD % Recovery:	74%
Relative % Difference:	7.6%

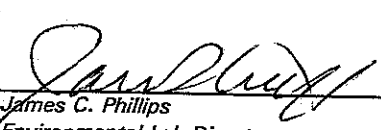
Please Note:

The LCS (Laboratory Check Sample) is a control sample of known, interferent free matrix that is fortified with representative analytes and analyzed using the same reagents, preparation and analytical methods employed for the samples. The LCS % recovery is used for validation of sample batch results. Due to matrix effects, the QC limits and recoveries for MS/MSD's are advisory only and are not used to accept or reject batch results.

ANALYST:


James C. Phillips

APPROVED BY:


James C. Phillips
Environmental Lab Director

KRAZAN & ASSOCIATES, INC.
ATTN: NATHAN STOOPE
215 WEST DAKOTA AVENUE
CLOVIS, CA 93612
(209) 348-2200 FAX: (209) 348-2201

Project No. 01495132

Sampler Signature Ronald E. Holcomb

Printed Name RONALD E. HOLCOMB

PARAMETERS													NUMBER OF CONTAINERS	OBSERVATIONS/ COMMENTS
CAC METALS (TLC/STLO)	PR. POLLUTANT METALS	TOTAL LEAD	TPH-DIESEL	TPH-GAS	BTXE/TPH-GAS	OIL & GREASE <u>418.1</u>	HALOGENATED ORGANICS (EPA 8010/601)	VOLATILE ORGANICS (EPA 8010/602)	ORGANOCHLORINE PESTICIDES & PCB'S (EPA 8080)	PENTACHLOROPHENOL	CREOSOTE	DIOXINS/FURANS		

SAMPLE NO	DATE	TIME	DESCRIPTION/LOCATION
X-5B	11/14/95	830	#5 BOTTOM
X-5S		840	#5 SOUTH SIDE
X-5E		850	#5 EAST SIDE
X-5W		855	#5 WEST SIDE
X-5N		900	#5 NORTH SIDE
X-4B		1100	#4 BOTTOM
X-4NE		1105	#4 NE SIDE
X-4W		1110	#4 WEST SIDE
X-4SE		1115	#4 SOUTHEAST
SC		1330	SC

RELINQUISHED BY <u>Ronald E. Holcomb</u> Signature <u>RONALD E. HOLCOMB</u> Printed Name <u>KRAZAN</u> Company	DATE <u>11/14/95</u> TIME <u>1130</u>	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY	DATE

10	TOTAL NUMBER OF CONTAINERS SUBMITTED TO THE LAB
	METHOD OF SHIPMENT/DELIVERY
	SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS
	RESULTS DUE: _____

Signature Clari J. Cone
Printed Name Clari J. Cone
Company Castle Analytical
DATE 11/15/95
TIME 7:10

BSK ANALYTICAL LABORATORIES

Nathan Stoopes
Krazan & Associates
215 West Dakota Avenue
Clovis, CA 93612

Date Sampled : 11/14/95
Time Sampled : 1330
Date Received : 11/14/95
Report Issue Date: 11/21/95

Case Number : Ch953165
Lab ID Number : 3165
Project Number : 01495132
Sample Description: SC Spoils Comp

Sample Type: SOLID

Analyses for Total Lead by EPA Method 6010

Results Reported in Milligrams Per Kilogram (mg/kg) as Received

Compound	Results	DLR
Total Lead (Pb)	7	5

Sample DLR = DLR x DLR Multiplier, DLR Multiplier = 1

DLR: Detection Limit for the Purposes of Reporting.
Exceptional sample conditions or matrix interferences
may result in higher detection limits.

ND: None Detected


Cynthia Pigman, QA/QC Supervisor

LEADS.T

CASTLE ANALYTICAL LABORATORY

Environmental Testing Services
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P.O. Box 1360, Winton, CA. 95388

Phone: (209) 384-2930
Fax: (209) 384-1507

Krazan & Associates, Inc. 215 W. Dakota Avenue Clovis, CA 93612 Attn: Nathan Stoopes	Client Project ID: 014-95132 Reference Number: 637 Sample Description: Soil Sample Prep/Analysis Method: LUFT Lab Numbers: 637-1S, 2S, 3S, 4S	Sampled: 1-5-96 Received: 1-9-96 Extracted: 1-12-96 Analyzed: 1-12-96 Reported: 1-16-96
---	---	---

TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE

ANALYTE	REPORTING LIMIT (mg/kg)	SAMPLE ID X4B2 (mg/kg)	SAMPLE ID X4NE2 (mg/kg)	SAMPLE ID X5N2 (mg/kg)	SAMPLE ID X5B2 (mg/kg)
DIESEL RANGE HYDROCARBONS	1.0	ND	ND	ND	ND
Report Limit Multiplication Factor:		1	1	1	1

Instrument ID:	HP-GC1	HP-GC1	HP-GC1	HP-GC1
----------------	--------	--------	--------	--------

Practical Quantitation Limit = Reporting Limit x Report Limit Multiplication Factor
Analytes reported as ND were not detected or below the Practical Quantitation Limit

ANALYST: Clari J. Cone
Clari J. Cone

APPROVED BY: James C. Phillips
James C. Phillips
Environmental Lab Director

CASTLE ANALYTICAL LABORATORY

Environmental Testing Services
Certificate #2079

P.O. Box 1360, Winton, CA. 95388

Phone: (209) 384-2930
Fax: (209) 384-1507

Krazan & Associates, Inc.
215 W. Dakota Avenue
Clovis, CA 93612
Attn: Nathan Stoopes

Client Project ID: 014-95132
Reference Number: 637
Matrix: Soil
Analyst: Clari Cone

Method: TPH-Diesel
Instrument ID: HP-GC1
Prepared: 1-12-96
Analyzed: 1-12-96
Reported: 1-16-96

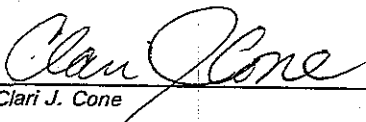
QUALITY CONTROL DATA REPORT

ANALYTE	TPH-Diesel
Spike Concentration:	5.00
Units:	mg/kg
LCS Batch #:	TPHD-1126
LCS % Recovery:	102%
Control Limits:	60-130 %
MS/MSD Batch #:	TPHD-1126
MS % Recovery:	66.9%
MSD % Recovery:	14.1%
Relative % Difference:	52.9%


Please Note:

The LCS (Laboratory Check Sample) is a control sample of known, interferent free matrix that is fortified with representative analytes and analyzed using the same reagents, preparation and analytical methods employed for the samples. The LCS % recovery is used for validation of sample batch results. Due to matrix effects, the QC limits and recoveries for MS/MSD's are advisory only and are not used to accept or reject batch results.

ANALYST:


Clari J. Cone

APPROVED BY:


James C. Phillips
Environmental Lab Director

CASTLE ANALYTICAL LABORATORY

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Krazan & Associates, Inc.
215 W. Dakota Avenue
Clovis, CA 93612
Attn: Nathan Stoopes

Client Project ID: 014-95132
Reference Number: 637
Sample Description: Soil
Sample Prep/Analysis Method: LUFT
Lab Numbers: 637-1S, 2S, 3S, 4S

Sampled: 1-5-96
Received: 1-9-96
Extracted: 1-10-96
Analyzed: 1-10-96
Reported: 1-15-96

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

ANALYTE	REPORTING LIMIT (mg/kg)	SAMPLE ID	SAMPLE ID	SAMPLE ID	SAMPLE ID
		X4B2 (mg/kg)	X4NE2 (mg/kg)	X5N2 (mg/kg)	X5B2 (mg/kg)
PETROLEUM HYDROCARBONS	15	ND	ND	ND	ND
Report Limit Multiplication Factor:		1	1	1	1

Instrument ID:

IR-SPEC

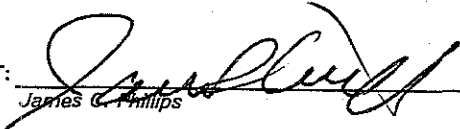
IR-SPEC

IR-SPEC

IR-SPEC

Practical Quantitation Limit = Reporting Limit x Report Limit Multiplication Factor
Analytes reported as ND were not detected or below the Practical Quantitation Limit

ANALYST:


James C. Phillips

APPROVED BY:


James C. Phillips
Environmental Lab Director

CASTLE ANALYTICAL LABORATORY

Environmental Testing Services
Certificate No. 2079

P.O. Box 1360, Winton, CA. 95388

Phone: (209) 384-2930
Fax: (209) 384-1507

Krazan & Associates, Inc.
215 W. Dakota Avenue
Clovis, CA 93612
Attn: Nathan Stoopes

Client Project ID: 014-95132
Reference Number: 637
Matrix: Soil
Analyst: James Phillips

Method: 418.1M
Instrument ID: IR SPEC-1
Prepared: 1-10-96
Analyzed: 1-10-96
Reported: 1-15-96

QUALITY CONTROL DATA REPORT

ANALYTE PETROLEUM HYDROCARBONS

Spike Concentration: 50
Units: mg/kg
LCS Batch #: TRPH-1106
LCS % Recovery: 92%
Control Limits: 60-130 %
MS/MSD Batch #: TRPH-1106
MS % Recovery: 88%
MSD % Recovery: 80%
Relative % Difference: 3.1%


Please Note:

The LCS (Laboratory Check Sample) is a control sample of known, interferent free matrix that is fortified with representative analytes and analyzed using the same reagents, preparation and analytical methods employed for the samples. The LCS % recovery is used for validation of sample batch results. Due to matrix effects, the QC limits and recoveries for MS/MSD's are advisory only and are not used to accept or reject batch results.

ANALYST:


James C. Phillips

APPROVED BY:


James C. Phillips
Environmental Lab Director



CHAIN-OF-CUSTODY RECORD

KRAZAN & ASSOCIATES, INC. 215 WEST DAKOTA AVENUE CLOVIS, CA 93612 (209) 348-2200 VOICE (209) 348-2201 FAX				Comments: ① TO UNIT 'P'				REQUESTED ANALYSES							P.O. Number: 2303					
Project No.: 01495132				Project Name: (optional)				Sample Matrix W-Water S-Soil A-Air O-Other	Sample Type C-Composit D-Discrete	Sample Preserved? (Yes/No)	Number of Containers	BTEX/TPH-Gasoline	TPH-Diesel	TRPH by EPA 418.1	CAC Metals (TTLC)	Pentachlorophenol	Creosote	Dioxins/Furans	Ice Chest No.:	
Sampler Name (Printed): RONALD HOLCOMB				Report Attention: N. STOOPEZ															Laboratory:	
Lab Sample ID #	Krazan Sample No.	Date Sampled	Time Sampled	Sample Description				W-Water S-Soil A-Air O-Other	C-Composit D-Discrete	Yes/No	Containers	BTEX/TPH-Gasoline	TPH-Diesel	TRPH by EPA 418.1	CAC Metals (TTLC)	Pentachlorophenol	Creosote	Dioxins/Furans	Lab Quote No.:	
																			Remarks	
	XABZ	1/5/96	9:10	exc #4 BOTTOM				S	G	NO	1		X	X						
	X4NEZ		9:15	exc #4 NE SIDE				S	G		1			X	X					
	X5NZ		9:25	exc #5 NORTHSIDE				S	G		1			X	X					
	X5BZ		9:30	exc #5 BOTTOM				S	G		1			X	X					
Signature: <i>Ronald E. Holcomb</i>		Printed Name: RONALD E. HOLCOMB		Date: 1/5/96		Time: 10:00 am		Company Name: KRAZAN		Total Number of Containers Submitted to Laboratory:		Turn Around Time (Circle Choice)								
Relinquished by: <i>Clari J. Cone</i>		Received by: <i>Clari J. Cone</i>		Date: 1/9/96		Time: 7:10 am		Company Name: Castle Analytical		24 Hrs.		48 Hrs.								
Relinquished by:		Received by:		Date:		Time:		Company Name:		5 Days		10 Days								
Relinquished by:		Received by:		Date:		Time:		Company Name:		As Contracted										
Relinquished by:		Received by:		Date:		Time:		Company Name:												

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

WEIGHMASTER CERTIFICATE

HONDO INC.
20807 STOCKDALE HIGHWAY
BAKERSFIELD, CA 93312 (805) 589-1042

Nº 36977

TRUCK LICENSE 9A15828	TRAILER LICENSE VS1527	TRAILER NO. 2 LICENSE
WEIGHED FOR (SELLER) KROEKER	DELIVERED TO (BUYER) HONDO	TRUCK CARRIER KROEKER
HONDO CHEMICAL INC. WEIGHMASTER		
DATE 2 8 96	<i>[Signature]</i>	DEPUTY
DATE 2 8 96	<i>[Signature]</i>	DEPUTY
WEIGHED AT 20807 STOCKDALE HIGHWAY BAKERSFIELD, CA 93312	CASH PAID	CHARGE SALE XX
COMMODITY SOIL		
REMARKS	DRIVER <i>[Signature]</i>	
		11:59 AM 02 08 96 64720 1b (2) 39350 1b TR 25340 1b NET
		TIME / DATE
		GROSS LBS.
		TARE LBS.
		NET LBS.

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

HONDO INC.
20807 STOCKDALE HIGHWAY
BAKERSFIELD, CA 93312 (805) 589-1042

Nº 36980

TRUCK LICENSE 9A07409	TRAILER LICENSE UU1288	TRAILER NO. 2 LICENSE
WEIGHED FOR (SELLER) <i>[Signature]</i>	DELIVERED TO (BUYER) <i>[Signature]</i>	TRUCK CARRIER <i>[Signature]</i>
HONDO CHEMICAL INC. WEIGHMASTER		
DATE 2 8 96	<i>[Signature]</i>	DEPUTY
DATE 2 8 96	<i>[Signature]</i>	DEPUTY
WEIGHED AT 20807 STOCKDALE HIGHWAY BAKERSFIELD, CA 93312	CASH PAID	CHARGE SALE
COMMODITY <i>[Signature]</i>		
REMARKS	DRIVER <i>[Signature]</i>	
		12:03 PM 02 08 96 60320 1b (6) 37920 1b TR 22400 1b NET
		TIME / DATE
		GROSS LBS.
		TARE LBS.
		NET LBS.



Health
Services
Agency

George Bleth
Agency Director

April 4, 1996

Clifford King
USDA Agricultural Research
2021 South Peach Avenue
Fresno, California 93711

Dear Mr. King:

SUBJECT: *Certification of Response Action*
LOCATION: *2021 South Peach Avenue, Fresno, California*

This letter confirms the completion of a site investigation and remedial action with regard to a release of hazardous substances in relation to underground storage tanks at the above site. With the provision that the information provided to this office is accurate and representative of existing conditions, no further action is required at this time. This site should now be properly closed.

We are required by the State to advise you that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present, or future operations at the site. Nor, does it relieve you of the responsibility to clean up existing, additional, or previously unidentified conditions at the site which cause or threaten to cause pollution, or nuisance, or otherwise pose a threat to water quality or public health. Additionally, changes in the present or proposed use of the site may require further site characterization and mitigation activity. It is the property owner's responsibility to notify this agency of any changes in report content, future contamination findings, or site usage.

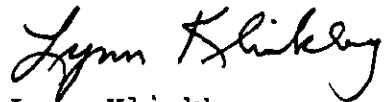
Gary M. Carozza, Director
Community Health Department
1221 Fulton Mall · P.O. Box 11867 · Fresno, California 93775
Phone 209-445-0666

Clifford King
Certification of Response Action
April 4, 1996
Page 2

Further, nothing in the above determination: 1) is intended or shall be construed to limit the rights of any parties with respect to claims arising out of, or relating to deposit, or disposal at any other location of substances removed from the site: 2) is intended or shall be construed to limit, or preclude the County, or any other agency from taking any action authorized by law, including, but not limited to, any further enforcement actions.

Please call me at (209) 445-3271 between the hours of 8:00-9:00 a.m. and 4:00-5:00 p.m., if you have any questions.

Respectfully,



Lynn Klinkby
Geologist
Environmental Health System

LK\lk

cc: John Noonan
C. Dean Hubbard



**HEALTH SERVICES AGENCY
COMMUNITY HEALTH DEPARTMENT
Environmental Health Application**

P.O. Box 11800, Fresno, California 93775
1221 Fulton Mall - ☎ (209) 445-3357

PLEASE PRINT OR TYPE

Business Name _____

Inspection Site Address _____

Date of Business Commencement _____ Business Telephone _____

Billing Address _____

Business Owner _____

Owner Address _____

Telephone _____

The Applicant hereby agrees to abide by all applicable Federal, State, and Fresno County statutes, laws, regulations, and the Fresno County Charter Ordinances and to pay all applicable Fresno County Environmental Health Permit and Inspection Fees, and late penalties, if any, which apply to the Permit which is being applied for here. PENALTIES FOR LATE PAYMENT ARE ASSESSED AT 10% PER MONTH OR FRACTION THEREOF. Notify Environmental Health of any change in the type of business activity, name, billing address, or ownership by calling 445-3357. Failure to notify Environmental Health may result in late penalties, Permit denial or revocation, and business closure. PERMITS AND FEES ARE NOT TRANSFERABLE.

Owner / Authorized Representative _____ Title _____ Date _____
— DO NOT WRITE BELOW THIS LINE —

Record ID#	Prog Elem #	Fee/Activity Description	Billing Code	Fee
PR647351	6710			0
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Penalty Calculation: _____ Penalty Due _____
TOTAL AMOUNT DUE 0

RETURN TO: _____ Date Left: _____ ROUTE TO: Business Envision File
 New Business Ownership Change Business Name Change Billing Address Change Other
 Close(inactive) Close(delete) Closure Date _____ Site Correction/Change Activity Change

Comments Please change the program element 6701 to 6710

Business Name USDA Agriculture Research Owner USDA

Inspection Site 2021 S Peach Census Tract # 1406 City Code 05

Business ID # 170540 Tank # _____ Permit Code _____ Designated Employee ID # 1000

Application Approved By: Lynn Klibby Employee ID# 0221 Date 4-4-96

Business Office Use

Envision updated by [Signature] Date 4/5/96
Supervisor Review [Signature] 111

Date: 4-1-96
To: Dave Romaville
From: Lynn Klinkby
Subject: 2021 Peach Ave.

Dave - I believe this site is ready for a 'no further action required' status.

5-15-95: Tanks removed. Tank #4 - 120 ppm TPH-D
Tank #5 - 25,000 ppm TPH-D 17,000 TRPH

11-14 to 1-5-96: Overexcavation

Tank 4: Sample at 12' BSG (directly under former tank) was N.D. North & South walls were N.D. at 8' BSG. West wall had 2400 ppm TPH-D at 8' BSG. This sample was taken adjacent a building & further excavation was not possible. Krazan suggests this is limited & should be allowed to remain in place'. G.W. is 90' BSG (our maps show 60').

Tank 5: Overexcavation samples were N.D. with the exception of 6.5 ppm TPH-D on the east wall and 1.1 ppm TPH-D on the south wall (both adjacent the buildings)

In their report Krazan estimates that 3-4 yd³ of impacted soil remain in place beneath the building on the west side of the excavation - they believe this doesn't threaten groundwater. I agree that this isolated pocket poses a low risk.

I agree with your conclusion thanks LP

 **Krazan** & ASSOCIATES, INC.
GEOTECHNICAL ENGINEERING • ENVIRONMENTAL ENGINEERING
CONSTRUCTION TESTING AND INSPECTION

March 28, 1996

PR 047351 Assigned DLK
Date Received 03/29/96
Priority 3 Type RP
Handwritten initials: DLK, BW

Ms. Lynn Klinkby
Fresno County Community Health Department
Environmental Health System
P.O. Box 11867
Fresno, California 93775

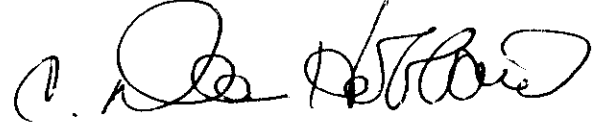
RECEIVED
MAR 29 1996
Environmental Health System
Fresno Co Community Health Dept

Re: Soil excavation and Remediation
Former UST Site
USDA Agricultural Research Services
2021 South Peach Avenue
Fresno, California

Ms. Klinkby:

Please find enclosed a copy of the report for the above referenced project site. If you have any questions or comments please do not hesitate to contact our Environmental Services Division at 209-348-2200. Thank-you...

Respectfully submitted,
KRAZAN & ASSOCIATES, INC.



C. Dean Hubbard, R.G.
Registered Geologist



Health
Services Agency

George Bleth
Agency Director

October 9, 1995

Mr. Clifford King
USDA Agricultural Research
2021 South Peach Avenue
Fresno, California 93711

Dear Mr. King:

Subject: Workplan Approval (8-25-95 & 9-27-95)
Location: 2021 South Peach Avenue, Fresno, CA

The workplan submitted regarding the subject location is hereby approved by the Fresno County Community Health Department, Environmental Health System.

You should now secure any County subsurface site assessment and drilling permits, State hazardous waste manifests, etc., necessary to perform the work. It is your responsibility to ensure that all appropriate safety measures are implemented, and all appropriate city and/or county building and/or demolition permits are obtained.

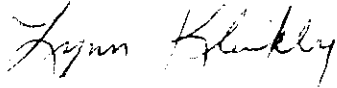
Gary M. Carozza, Director
Community Health Department
1221 Fulton Mall • P.O. Box 11867 • Fresno, California 93775
Phone 209-445-0666

Mr. Clifford King
Workplan Approval (8-25-95 & 9-27-95)
October 9, 1995
Page 2

Please ensure that copies of all analyses and reports relating to the project are forwarded to this office. Upon completion of the project, the final report must be reviewed by the County in order for you to receive certification that no further action is necessary.

Please call me at (209) 445-3271 if you have any questions.

Respectfully,



Lynn Klinkby
Geologist
Environmental Health System

LK:pw

Attachment

cc: Nathan Stoopes
Krazan & Associates, Inc.

NOTE: A COPY OF THIS LETTER (AND ANY ATTACHMENTS) MUST BE PRESENTED WHEN PERMITS ARE OBTAINED.

FRESNO COUNTY DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH SYSTEM

GENERAL CRITERIA FOR SUBSURFACE
ASSESSMENT/REMEDIAATION ACTIVITIES

Variations to any General Criteria may be appropriate on a site specific basis and should be discussed with FCDH prior to the initiation of any investigation.

1. All environmental assessments and/or remedial actions shall be preceded by a written workplan which is to be submitted to Fresno County Department of Health (FCDH) for review and comment prior to the commencement of work. The workplans should fully describe soil and water sampling procedures which are consistent with generally accepted engineering principles and practices.
2. Samples are to be analyzed for constituents representative of known and/or suspected contaminants of concern.
3. Documentation of the precision (reproducibility) and accuracy (use of spiked samples) of the chemical analytical methodology used for the assessment may be required from the laboratory performing the analyses.
4. Workplans and/or reports of remedial excavation operations shall include a scale diagram depicting excavation limits, existing site features, confirmation sample locations and depths and shall outline in detail the handling and disposition of contaminated soil. All excavation procedures shall conform to appropriate CAL-OSHA requirements. Contractors designated to perform work at sites where soil has been impacted by hydrocarbon constituents should possess a General Engineering "A" license and/or demonstrate experience handling hazardous materials.
5. All work and reports which require geologic or engineering evaluations and/or judgements must be performed under the direction of an appropriately registered or certified professional (Business and Professions Code Section 6735, 7835, 7835.1).
6. Workplans for environmental assessments should include a statement from a property owner, responsible party, or other interested party stating what response, if any, is needed or expected from FCDH following submission of the results of the investigation.
7. All reportings of soil and/or water sampling events must be accompanied by a site plan depicting sampling locations and all pertinent site features (i.e., former or existing tank locations, etc.).
8. Excavated soil, drill cuttings from soil borings, liquid generated by rinsing drilling equipment, liquid purged from groundwater monitoring wells and any other hazardous or potentially hazardous waste generated by any assessment,

remedial action or tank removal procedure shall be properly identified, managed and disposed of in accordance with all applicable, Federal, State, and Local regulations.

9. Proposals for aeration of contaminated soil and/or in-place remediation procedures shall be submitted for concurrent review and approval by the San Joaquin Valley Unified Air Pollution Control District and Fresno County Hazardous Materials/UST Program prior to the implementation of the plan.

Site assessments utilizing soil borings to define the extent of contaminated soil shall meet the following conditions.

10. The locations of soil borings relative to City of Fresno property shall be checked and permits to install groundwater monitoring wells shall be obtained from Fresno City Public Works Department and/or any other appropriate municipal government.
11. At least one soil sample per fifteen vertical feet in a boring should be submitted to a California State Certified Hazardous Waste Laboratory for analysis of suspected contaminants of concern in order to ensure complete subsurface profile data.
12. The vertical extent of contaminated soil can generally be determined by two consecutive five foot soil samples with no detectable contaminants of concern (analyzed by a California State Certified Hazardous Waste Laboratory).
13. Exploratory soil borings which are intended to penetrate contaminated soil should have a stated maximum depth that is no closer than fifteen feet to the estimated groundwater surface level.
14. Workplans for monitoring well installation shall specify that soil borings for monitoring well emplacement will not be drilled through contaminated soil and shall include written descriptions of monitoring well installation procedures which specify that annular space backfill including sand/bentonite/cement slurries will be emplaced under pressure.
15. Soil borings and/or groundwater monitoring wells installed by drilling shall be drilled only by contractors who maintain a copy of a valid C-57 license and proof of workmen's compensation at the Fresno County Department of Health Underground Storage Tank (UST) Program. Hand auger bore holes shall be drilled only by consultants/contractors who provide proof of valid workmen's compensation insurance or provide a letter stating that they are exempt from the workmen's compensation laws of the State of California.

NOTE: A permit for subsurface site assessment must be completed and approved and an inspection appointment should be made at least 48 hours prior to the commencement of any Assessment/Remediation activity.

RECEIVED
SEP 28 1995

Fresno County Community Health Department
Environmental Health System
P.O. Box 11867, Fresno, California 93775
Telephone (209) 445-3271

Please notify the analyst-of-the-day at 445-3271 at least 48 hours prior to the time of sampling. ZK.

Environmental Health System
Fresno Co Community Health Dept

**Subsurface Assessment/Corrective Actions
Permit Application**

SITE INFORMATION:

Facility Name USDA AGRICULTURAL RESEARCH SERVICES Phone No. (209) 453-3005
Address 2021 SOUTH PEACH AVENUE Cross Street BUTLER
City FRESNO State CA Zip 93727 APN N/A
Tank Owner USDA Agr. RESEARCH SERVICES Phone No. (209) 453-3005
Address 2021 SOUTH PEACH AVE
City FRESNO State CA Zip 93727

CONTRACTOR INFORMATION:

Company KROEGER INC. Phone No. (209) 439-0604
Address 527 W. BROWNING AVE Contractor Lic. No. 621866 Class A C12, C21, C57
City FRESNO State CA Zip 93704-1803

CONSULTANT INFORMATION:

Company KRAZAN & ASSOCIATES Phone No. (209) 348-2800
Address 215 WEST DAKOTA AVE Registration No. 34274 Type RCE
City CLOVIS State CA Zip 93612

DESCRIBE WORK TO BE PERFORMED:

SOIL EXCAVATION & REMEDIATION AS PER KRAZAN WORKPLAN DATED AUGUST 25th, 1995, AND LETTER ADDENDUM DATED SEPTEMBER 27, 1995

NOTE: Permit expires ninety (90) days after the application date. The applicant has received, understands, and will comply with the attached conditions of this permit and any other State and local regulations.

NATHAN A. STOOVES
Applicants Name (Please print)

[Signature]
Applicants Signature

9/27/95
Application Date

OFFICIAL USE ONLY

[Signature]
Approved by
10-9-95

047351
File No.

051406
City Code and CT

N/A
Fee

FRESNO COUNTY DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH SYSTEM

GENERAL CRITERIA FOR SUBSURFACE
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remedial action or tank removal procedure shall be properly identified, managed and disposed of in accordance with all applicable, Federal, State, and Local regulations.

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NOTE: A permit for subsurface site assessment must be completed and approved and an inspection appointment should be made at least 48 hours prior to the commencement of any Assessment/Remediation activity.

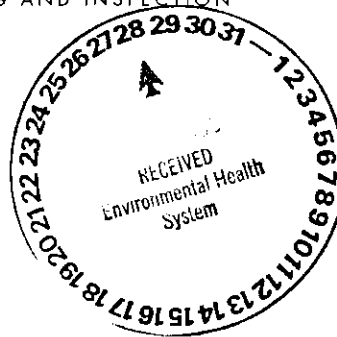
Krazan & ASSOCIATES, INC.

GEOTECHNICAL ENGINEERING • ENVIRONMENTAL ENGINEERING
CONSTRUCTION TESTING AND INSPECTION

September 27, 1995

Project 014-94132

Mr. Jim Armstrong
Fresno County Environmental Health Department
1221 Fulton Mall, Third Floor
Post Office Box 11867
Fresno, California 93775



Re: Workplan Review and Permit Approval
Soil Excavation and Remediation
USDA Agricultural Research Services Facility
2021 South Peach Avenue
Fresno, California

PR 047351 Assigned DLK
Date Received 9/28/95 Done
Priority 2 Type AD 9/28/95
BW

Dear Mr. Armstrong:

Krazan & Associates is submitting this letter on behalf of USDA and Kroeker Inc. for the property located at 2021 South Peach Avenue in Fresno, California. Krazan & Associates (Krazan) has prepared a workplan for excavation and remediation of soil, which includes soil sampling and chemical analyses. Fresno County Environmental Health Department (Fresno County EHD) is in receipt of the workplan, and has provided comments to the workplan which are addressed in this letter.

As per our meeting on September 25, 1995, between yourself, Mr. Alvin Humphrey with USDA, Mr. Steve Deathriage with Kroeker, Inc., Nathan Stoores with Krazan, and Ms. Lynn Klinkby with Fresno County EHD, the following items were discussed.

1. As requested, a completed Subsurface Assessment Permit is attached.
2. It was acknowledged during our meeting that negotiating the proposed cleanup level for soil containing petroleum hydrocarbons, and determining what can be left in-place should analytical results indicate that non detect results have not been achieved (if necessary) will be discussed with the Fresno County EHD following receipt of soil chemical analyses indicating the presence of petroleum hydrocarbons in excavation samples.
3. Figure 3, Proposed Sample Location Map, shows the proposed soil sample location from the bottom of the excavation of Tank #4 inadvertently placed on the edge of the excavation. A corrected Figure 3, showing the proposed soil sample location at the base of the excavation, is attached.

We appreciate your attention to this matter. If you have questions or require additional information, please do not hesitate to contact us at (209) 348-2200.

Respectfully submitted,
Krazan & Associates



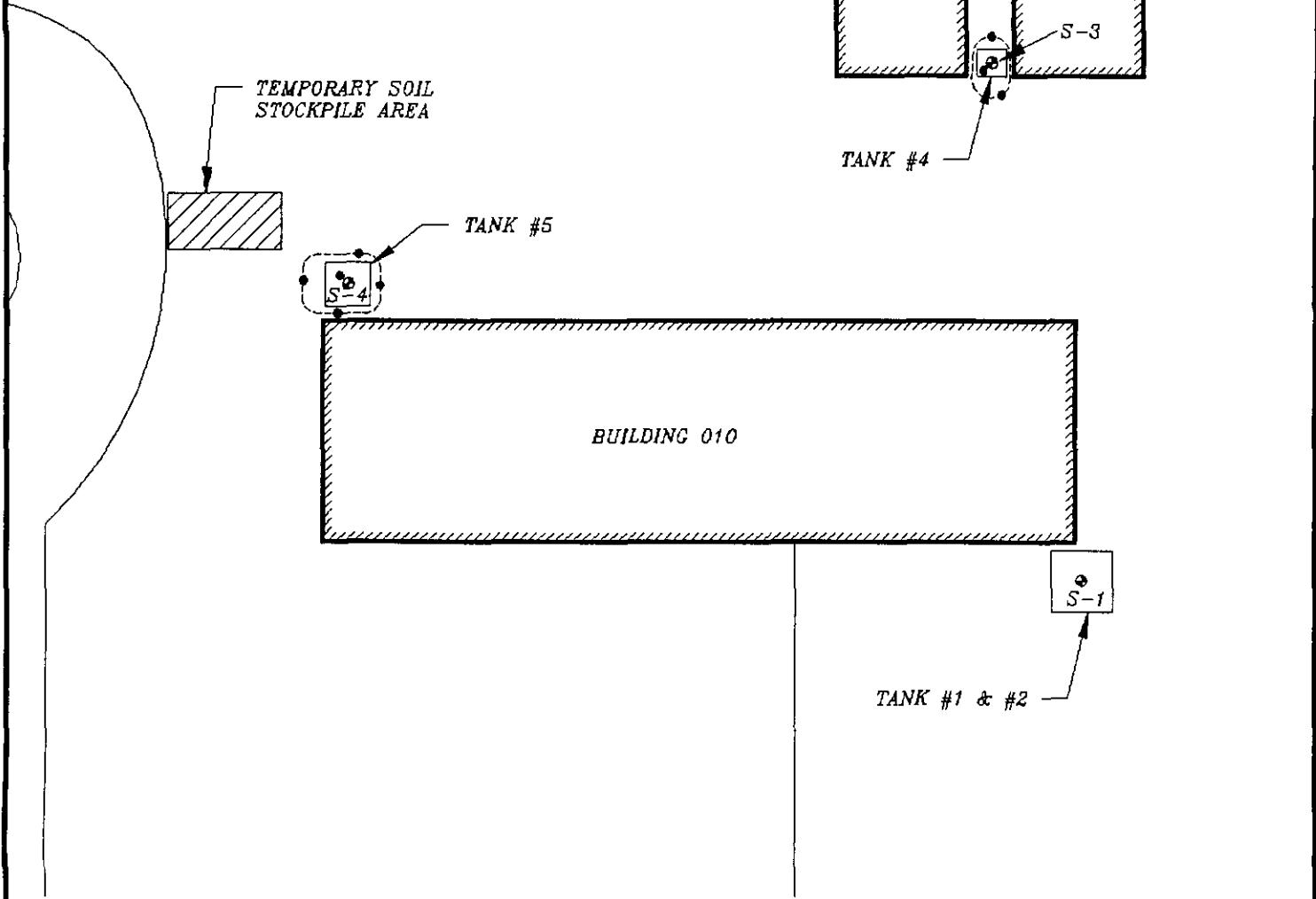
Nathan A. Stoopes
Project Manager

Attachments

cc: Steve Deathriage, Kroeker Inc.
Clifford King, USDA

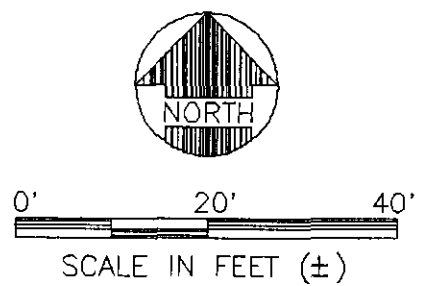
RECEIVED
SEP 28 1995


Environmental Health System
Fresno Co Community Health Dept.



**PROPOSED
SAMPLE LOCATION MAP**

- PROPOSED SAMPLE LOCATION
- SAMPLE LOCATION (5/15/95)
- ESTIMATED LIMITS OF PROPOSED EXCAVATION



USDA AGRICULTURAL RESEARCH SERVICES FACILITY 2021 S. PEACH AVE. FRESNO, CA	Scale: AS SHOWN	Date: 8-95	 Krazan ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SPECIALISTS <i>Offices Serving the Western United States</i>
	Drawn by: J.A.G.	Approved by: N.S.	
	Project No. 01495132	Figure No. 3	

Date: SEPT 25, 1995

To: FILE, 2021 S PEACH, FRESNO, CA

From: JIM ARMSTRONG

Subject: MEETING AT FCCHD OFFICES
LEAKY UST SITE

WORKPLAN BY KRAZAN $\frac{1}{2}$ ASSOCIATES

THE WORKPLAN IS FOR THE EXCAVATION AND CLEANUP OF SOIL
IMPACTED BY ^{HEATING OIL} ~~WATER~~ HYDROCARBONS.

THE PLAN IS FOR REMOVAL OF SOIL AND THEN DISPOSAL OF
THE SOIL AT A DISPOSAL AND/OR RECYCLING FACILITY.

WRITTEN CHANGES TO THE PLAN SHOULD INCLUDE:

1. COMPLETE AND SUBMIT A SUBSURFACE ASSESSMENT PERMIT
2. REVISE FIGURE 3 - TANK # 4 - 1 OF THE CONFIRMING
SAMPLES NEEDS TO COME FROM THE BOTTOM OF THE
EXCAVATION
3. THE "ADDITIONAL ASSESSMENT" OF PAGE NO. 4 AND PAGE 8
MAY BE NECESSARY IF ALL THE IMPACTED SOIL IS NOT
REMOVED FROM THE GROUND DISCUSSION OR "CLEANUP" LEVELS
IS NOT APPROPRIATE UNTIL AFTER THE EXTENT OF ANY

Date:

To:

From:

Subject:

IMPACTED SOIL LEFT IN PLACE IS DEFINED,

ALSO THE RESPONSIBLE PARTY NEEDS TO CONSIDER WHERE
TREATED SOIL WILL BE PLACED (AFTER TREATMENT) IN THEIR
SELECTION OF A RECYCLING FACILITY.

I TOLD ALVIN HUMPHREYS THAT OUR OFFICE SHOULD HAVE A
RESPONSE APPROXIMATELY ONE WEEK AFTER WE RECEIVE THE
WRITTEN AMENDMENTS.

IN ATTENDANCE:

MR. ALVIN HUMPHREYS - USDA

MR. STEPHEN DEATHRIAGE - KROEKER, INC.

MR. NATHAN STOPES - KRAZAN & ASSOCIATES

MS. LYNN KLINKBY - FRESNO COUNTY

MR. JIM ARMSTRONG - FRESNO COUNTY



Health
Services
Agency

George Bleth
Agency Director

Fax Cover Sheet

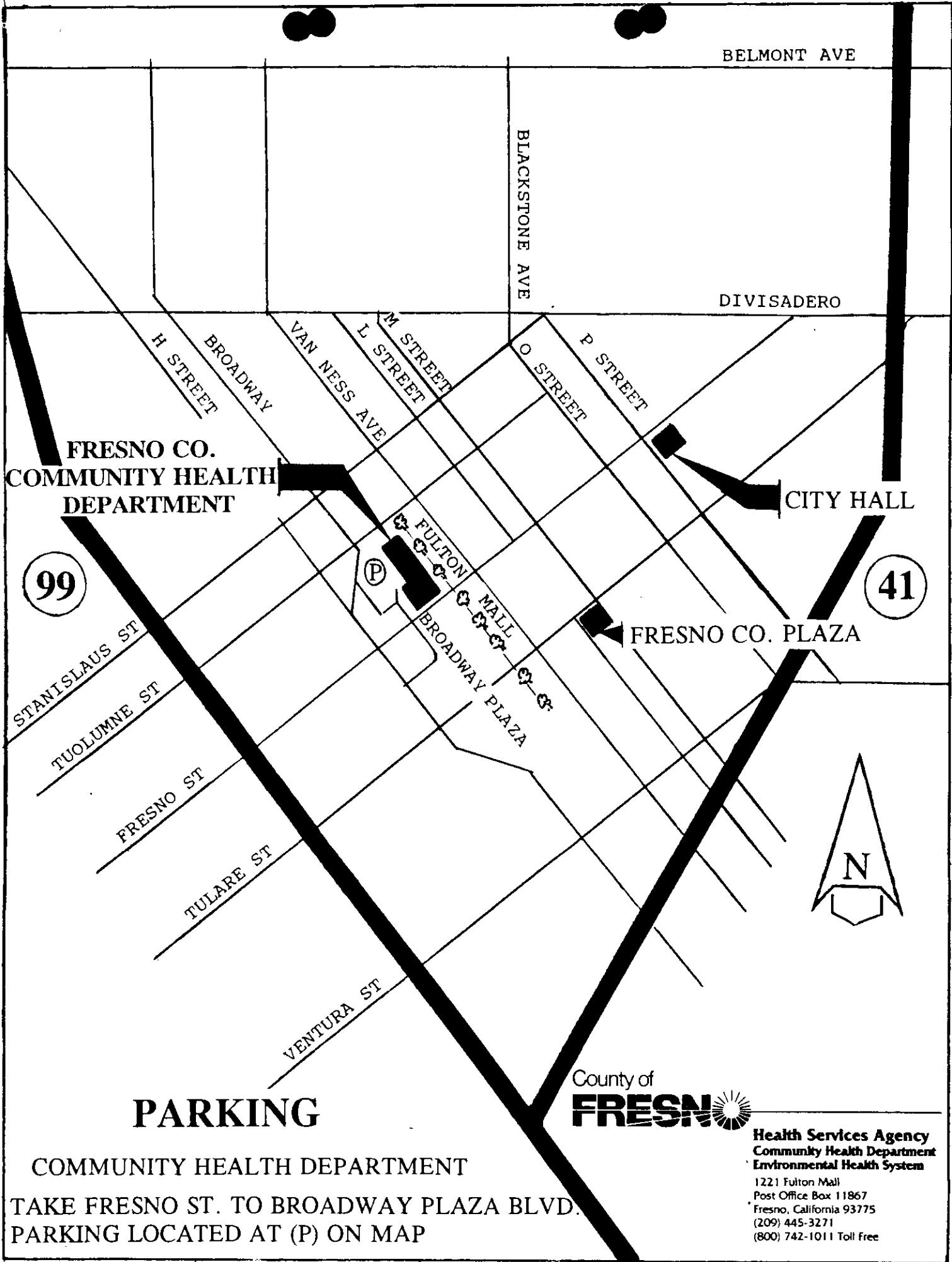
SENDER'S FAX #: (209) 445-3379

Company Name:	
Contact Name:	Mr. Alvin Humphrey
Fax Number:	(510) 559-5683

Sender Name:	Lynn Klinkby
Sender's Phone Number:	(209) 445-3271
Special Instructions/Message:	We are on the 3 rd floor. Just ask for the Underground Storage Tank Dept. See you at 3:00 9-25-95

Number of pages including cover:	2
Date Sent:	9-12-95

Gary M. Carozza, Director
Community Health Department
1221 Fulton Mall • P.O. Box 11867 • Fresno, California 93775
Phone 209-445-0666



BELMONT AVE

DIVISADERO

BLACKSTONE AVE

**FRESNO CO.
COMMUNITY HEALTH
DEPARTMENT**

CITY HALL

99

41

FRESNO CO. PLAZA

STANISLAUS ST
TUOLUMNE ST

FULTON MALL
BROADWAY PLAZA

FRESNO ST

TULARE ST

VENTURA ST



PARKING

County of
FRESNO

COMMUNITY HEALTH DEPARTMENT
TAKE FRESNO ST. TO BROADWAY PLAZA BLVD.
PARKING LOCATED AT (P) ON MAP

**Health Services Agency
Community Health Department
Environmental Health System**
1221 Fulton Mall
Post Office Box 11867
Fresno, California 93775
(209) 445-3271
(800) 742-1011 Toll Free

*** TRANSMISSION REPORT ***

SEP-12-95 14:59

ID:2094453301

FRESNO CO ENV HEALTH

START TIME	SEP-12-95 14:58
TELEPHONE NUMBER	915105595683
NAME (ID NUMBER)	
TRANSMISSION MODE	EMMR
RESOLUTION	STD
PAGES TRANSMITTED	002
MAILBOX	OFF
SECURITY	OFF
INFORMATION CODE	OK
REDIALING TIMES	01
MACHINE ENGAGED	00'46
JOB NUMBER	267

THIS TRANSMISSION IS COMPLETED.

LAST SUCCESSFUL PAGE 002

FRESNO COUNTY HEALTH SERVICES AGENCY
Underground Storage Tank Division

TELEPHONE CALL RECORD

USDA Ag. Research Services
(Facility Name)

2021 South Peach Avenue, Fresno, CA
(Facility Address)

Clifford King
(Person called) calling)

453-3007
(Phone number)

9-12-95
(Date)

11:30
(Time)

DISCUSSION SUMMARY

Called Clifford King and requested a meeting in our office to discuss the August 25, 1995 Workplan by Krazan. We agreed on the October 2nd @ 10:00 in room 346. His environmental specialist, Alvin Humphrey, may be in town the week of Sept 25th. If so, we may have to reschedule the mtg. He will let this office know.

Lyn Klinker
(Geologist)



Health
Services
Agency

George Bleth
Agency Director

August 29, 1995

Mr. Clifford King
USDA Agricultural Research
2021 South Peach Avenue
Fresno, California 93711

Dear Mr. King:

Subject: Contaminated Site Oversight Fees
Location: 2021 South Peach Avenue, Fresno, CA


On August 28, 1995 our department received a workplan for the initial assessment of the subject location. Our records indicate that you are currently responsible for the property listed above.

The Fresno County Environmental Health System fees which apply to leaking underground storage tank (as well as "other") sites are described on the enclosed fact sheet entitled "Contaminated Site Oversight Fees."

You will be invoiced for the Initial Assessment fee within 30 days from the date of this letter. We recommend that you retain the bottom portion of the invoice, as your record of payment, for possible reimbursement by the State's Cleanup Fund.

If you have any questions regarding the application of the Contaminated Site Oversight Fees, contact Jim Armstrong or David Pomaville at (209) 445-3271.

Respectfully


David Pomaville
Supervising Environmental Health Analyst
Environmental Health System

DP:pw

Enclosure

cc: USDA
Albany, CA

Gary M. Carozza, Director
Community Health Department
1221 Fulton Mall • P.O. Box 11867 • Fresno, California 93775
Phone 209-445-0666



Health Services Agency

George Bleth
Agency Director

Contaminated Site Oversight Fees

In December of 1994, the Fresno County Board of Supervisors amended the County Ordinance Code and established a schedule of fees for review of contaminated site workplans and reports. The fee schedule, which took effect February 1, 1995, is applicable to leaking underground storage tank sites and other contaminated sites where the Fresno County Community Health Department is the lead regulatory agency overseeing the cleanup effort.

The adopted fees are:

Initial Assessment.....\$278

This fee is intended to cover the first phase of work including requesting an assessment, meeting with the responsible party, reviewing and commenting on the initial workplan, and reviewing and commenting on the results/conclusions of the initial investigation.

Subsequent Assessment.....\$56/Hour

The hourly fee for Subsequent Assessment will recover staff costs for additional assessment, investigations, review of cleanup activities and certification of the remediation efforts when the cleanup is complete.

This office will invoice the Responsible Party for payment of oversight fees. After payment you will receive a receipt that should be kept with a copy of your invoice for possible reimbursement by the State's Cleanup Fund.

If you should have any questions regarding the application of the Contaminated Site Oversight Fees, contact Jim Armstrong or David Pomaville at (209) 445-3271.

Gary M. Carozza, Director
Community Health Department
1221 Fulton Mall • P.O. Box 11867 • Fresno, California 93775
Phone 209-445-0666



**HEALTH SERVICES AGENCY
COMMUNITY HEALTH DEPARTMENT
Environmental Health Application**

P.O. Box 11800, Fresno, California 93775
1221 Fulton Mall - ☎ (209) 445-3357

PLEASE PRINT OR TYPE

Business Name _____

Inspection Site Address _____

Date of Business Commencement _____ Business Telephone _____

Billing Address _____

Business Owner _____

Owner Address _____

Telephone _____

The Applicant hereby agrees to abide by all applicable Federal, State, and Fresno County statutes, laws, regulations, and the Fresno County Charter Ordinances and to pay all applicable Fresno County Environmental Health Permit and Inspection Fees, and late penalties, if any, which apply to the Permit which is being applied for here. PENALTIES FOR LATE PAYMENT ARE ASSESSED AT 10% PER MONTH OR FRACTION THEREOF. Notify Environmental Health of any change in the type of business activity, name, billing address, or ownership by calling 445-3357. Failure to notify Environmental Health may result in late penalties, Permit denial or revocation, and business closure. PERMITS AND FEES ARE NOT TRANSFERABLE

Owner / Authorized Representative _____ Title _____ Date _____
— DO NOT WRITE BELOW THIS LINE —

Record ID#	Prog Elem #	Fee/Activity Description	Billing Code	Fee
047351	6700	Contaminated Site Oversight Initial Assessment		\$270.00
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Penalty Calculation: _____ TOTAL AMOUNT DUE \$270.00

RETURN TO: _____ Date Left: _____ ROUTE TO: Business Envision File
 New Business Ownership Change Business Name Change Billing Address Change Other
 Close(inactive) Close(delete) Closure Date _____ Site Correction/Change Activity Change

Comments _____

Business Name USDA AGRICULTURAL RESEARCH SERVICE Owner USDA

Inspection Site 2021 SPRACH, FRESNO, CA Census Tract # 1406 City Code 05

Business ID # 170540 Tank # _____ Permit Code __ Designated Employee ID # 1000

Application Approved By: Jim Armstrong Employee ID# 0220 Date 8/29/95

Business Office Use

Envision updated by Sp Date 8/29/95
Supervisor Review DP jjj

A/R # 0005343



Health
Services
Agency

George Bleth
Agency Director

July 27, 1995

Mr. Clifford King
USDA Agriculture Research
2021 South Peach Avenue
Fresno, California 93711

Dear Mr. King:

SUBJECT: *Leaking Underground Storage Tank Assessment/Cleanup*
LOCATION: *2021 South Peach Avenue, Fresno, California*

An inspection, sampling, or testing conducted at your underground storage tank facility indicates the presence of contamination. This preliminary evidence does not quantify, nor qualify the extent of contamination.

If you have not done so already, within thirty (30) days of receipt of this notice you must secure the services of a qualified consultant and notify our office of your progress. We will schedule an appointment (if you so desire) to meet with you and your consultant to discuss the scope of work required to cleanup your site. A fact sheet entitled "*Tips for Obtaining the Services of an Environmental Engineering Consulting Firm*" is enclosed for your use.

The County of Fresno is responsible for overseeing your efforts and your consultant's efforts, to characterize and cleanup the contamination. Pursuant to *Title 23, Division 3, Chapter 16, Article 11 of the California Code of Regulations* you must demonstrate that the site poses no risk, nor potential risk to human health, or the environment. If groundwater contamination is found at your site, your case will be referred to the California Central Valley Regional Water Quality Control Board.

The Fresno County Environmental Health System fees which apply to Leaking Underground Storage Tank Remediation are described on the enclosed fact sheet entitled "*Contaminated Site Oversight Fees.*" The management of the information associated with review of the cleanup efforts at the subject location will proceed most efficiently if the name and mailing address contained in our files is correct.

Gary M. Carozza, Director
Community Health Department
1221 Fulton Mall • P.O. Box 11867 • Fresno, California 93775
Phone 209-445-0666

Mr. Clifford King
Leaking Underground Storage Tank Assessment/Cleanup
July 27, 1995
Page 2

The County's oversight will help you to secure a certification from the County that all appropriate response actions have been completed and that the site poses no present or potential public health or environmental risk. Not only may such certification help you to secure insurance or transfer your property, also it will help to limit the potential liability presented by unknown contamination. The County is committed to ensuring a healthy environment for its citizens. We will work with you to secure an effective and efficient solution to the contamination of your property.

We strongly encourage you to apply to the California Underground Storage Tank Cleanup Fund. The Cleanup Fund partially offsets the expense of site remediation by reimbursing eligible claimants for some of their cleanup costs and may be applicable in your case. Your case may also be eligible for **preapproval** of cleanup costs. Questions regarding how to determine if you are eligible for preapproval must be directed to the Cleanup Fund. Applications to the California Underground Storage Tank Cleanup Fund may be obtained by calling (916) 227-4307. Questions regarding eligibility for the Underground Storage Tank Cleanup Fund should be directed to the Cleanup Fund at (800) 813-FUND.

Please contact me at (209) 445-3271 within thirty (30) days to verify that the information contained in our files is correct and to answer any questions you may have.

Respectfully,



Jim R. Armstrong
Geologist
Environmental Health System

JRA:pjs

Enclosures

cc: USDA

f:\lust(1).frm



Health Services Agency

George Bleth
Agency Director

Tips for Obtaining the Services of an Environmental Engineering Consulting Firm

Choosing a consultant will probably be the most difficult and time consuming task required of you in the corrective action process. It is also the most important task. No other single factor, within your control, will affect the cost, duration, and overall "frustration level" of corrective action. You are advised to take this task very seriously and proceed with caution.

Hiring The Best People

Keep the following tips in mind when you're shopping around for a consultant to provide the most effective and economical site assessment and cleanup available.

- **Ask Around:** It's worth your while to ask other owners and operators, or your local association, about consultants they've hired.
- **Get Written Bids:** Have at least three consultants write estimates, also called bids. In their bids, consultants must list the tasks they will perform and how they will perform them. Request the same information from all consultants so you can compare bids.
- **List Charges:** Get an explanation of the rates charged. Know what you're paying for. Get a description of the tasks and a list of the junior-, mid-, and senior-level staff that will be performing each task. This is a good way to match rates to services. If you're not comfortable with any match-ups, ask the consultant for an explanation.
- **Compare Answers:** Weigh the strengths and weaknesses of each consultant against the others; decide on one, or if you don't think any of them can do your job, widen your search. You need to hire someone who will meet your needs.
- **Define Roles:** Ask that the bid include the qualifications and experience of the people who will be doing the work on your site. Whether you need to hire someone to assess your site or to cleanup the spill, this information will help you determine the company's qualifications.
- **Look Closely:** Evaluate the consultant's credentials and experience. Does the company's experience match your needs? Is the consultant qualified to do the job? Have they done this work before? How often? Are they planning on using subcontractors? How do they justify their rates?

Gary M. Carozza, Director
Community Health Department
1221 Fulton Mall • P.O. Box 11867 • Fresno, California 93775
Phone 209-445-0666

- **Count Heads:** Know in advance any planned use of subcontractors. Make sure the contract bid includes all subcontractor fees.
- **Ask Questions:** Clear understanding - about even the most minor details - is crucial to precise negotiations.
- **Get References:** Have them include a list of references. Are they familiar with State Underground Storage Tank and local regulations, and criteria for payment from the State Fund?
- **Read Fine Print:** Understand the payment terms, including interest charges on outstanding bills.
- **Sign Carefully:** Don't get locked into an overestimated bid, and don't automatically choose the lowest bidder.
- **Double-Check:** Before you commit to any contracts, have a clear understanding of the required work. Understand how long it will take and how much it will cost. Double-check, and get in writing, the following items from the consultant:
 - ✓ Price
 - ✓ Project timetable
 - ✓ Term and conditions of payment
 - ✓ Cited consultant's experience/capability
 - ✓ Explanation and purpose of technical work
- **And Remember:** The sooner a spill or release is cleaned up, the better. The longer you wait, the more the damage will spread and the more the cleanup will cost.



Health Services Agency

George Bleth
Agency Director

Contaminated Site Oversight Fees

In December of 1994, the Fresno County Board of Supervisors amended the County Ordinance Code and established a schedule of fees for review of contaminated site workplans and reports. The fee schedule, which took effect February 1, 1995, is applicable to leaking underground storage tank sites and other contaminated sites where the Fresno County Community Health Department is the lead regulatory agency overseeing the cleanup effort.

The adopted fees are:

Initial Assessment.....\$278

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The hourly fee for Subsequent Assessment will recover staff costs for additional assessment, investigations, review of cleanup activities and certification of the remediation efforts when the cleanup is complete.

This office will invoice the Responsible Party for payment of oversight fees. After payment you will receive a receipt that should be kept with a copy of your invoice for possible reimbursement by the State's Cleanup Fund.

If you should have any questions regarding the application of the Contaminated Site Oversight Fees, contact Jim Armstrong or David Pomaville at (209) 445-3271.

Gary M. Carozza, Director
Community Health Department
1221 Fulton Mall • P.O. Box 11867 • Fresno, California 93775
Phone 209-445-0666

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.	
REPORT DATE 1/11/3/95		CASE #		SIGNED: <u>David Van Dyne</u> DATE: <u>1-13-95</u>	
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT <u>DAVID VAN DYNE</u>		PHONE <u>(209) 445-3271</u>	SIGNATURE <u>David Van Dyne</u>	
	REPRESENTING <input type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input checked="" type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME <u>FRESNO COUNTY ENVIRON. HEALTH SYSTEM</u>		
ADDRESS <u>1221 FILTUAL STREET MAIL FRESNO CITY CALIF. STATE 93721 ZIP</u>					
RESPONSIBLE PARTY	NAME <u>USDA</u>		CONTACT PERSON <u>KING, CLIFFORD</u>	PHONE <u>(209) 551-6019</u> <u>(209) 453-3001</u>	
	ADDRESS <u>800 BUCHANAN ALBANY CALIF. STATE 94710</u>				
SITE LOCATION	FACILITY NAME (IF APPLICABLE) <u>USDA AGRICULTURE RESEARCH</u>		OPERATOR <u>KING, CLIFFORD</u>	PHONE <u>(209) 453-3007</u>	
	ADDRESS <u>2021 S. PEACH FRESNO, CALIF. COUNTY 93711</u> CROSS STREET <u>BUTLER</u>				
IMPLEMENTING AGENCIES	LOCAL AGENCY AGENCY NAME <u>FRESNO COUNTY ENVIRON. HEALTH SYSTEM</u>		CONTACT PERSON <u>JIM ARMSTRONG</u>	PHONE <u>(209) 445-3271</u>	
	REGIONAL BOARD <u>CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD</u>		<u>JOHN NOONAN</u>	PHONE <u>(209) 445-5116</u>	
SUBSTANCES INVOLVED	(1) NAME <u>DIESEL</u>			QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN	
	(2) <input type="checkbox"/> UNKNOWN				
DISCOVERY/ABATEMENT	DATE DISCOVERED <u>01/11/3/95</u>		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input checked="" type="checkbox"/> TANK REMOVAL <input type="checkbox"/> OTHER		
	DATE DISCHARGE BEGAN <u>UNKNOWN</u>		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input checked="" type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> OTHER		
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE <u>01/5/1/5/95</u>				
SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER		
	CASE TYPE CHECK ONE ONLY <input checked="" type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)				
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input checked="" type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY				
	REMEDIAL ACTION CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> OTHER (OT)				
COMMENTS	FRESNO COUNTY COMMUNITY HEALTH DEPARTMENT HAS REQUIRED THE SITE RESPONSIBLE PARTY TO SECURE THE SERVICES OF AN APPROVED ENVIRONMENTAL ENGINEERING CONSULTING FIRM.				

FRESNO COUNTY COMMUNITY HEALTH DEPARTMENT

Environmental Health System

P.O. Box 11867, Fresno, CA 93775, (209) 445-3271

BUSINESS PLAN REGISTRATION FORM

1) BUSINESS NAME: USDA Agricultural Research Service PHONE#: (209) 453-3005
FACILITY ADDRESS: 2021 S. Peach Ave.
CITY: Fresno STATE: CA ZIP CODE: 93727

2) OWNER/OPERATOR NAME: _____ PHONE #: _____
MAILING ADDRESS: _____
CITY: _____ STATE: _____ ZIP CODE: _____

3) DUN & BRADSTREET #: 0 4) SIC CODE: 1998

5) NATURE OF BUSINESS: Federal Government; Agricultural Research

6) EMERGENCY CONTACTS:

NAME: <u>Dr. Pat Vail</u>	NAME: <u>Ms. Denice Chambers</u>
BUSINESS PHONE: <u>(209) 453-3000</u>	BUSINESS PHONE: <u>(209) 453-3006</u>
24-HOUR PHONE: <u>(209) 439-3753</u>	24-HOUR PHONE: <u>(209) 452-0550</u>
TITLE: <u>Laboratory Director</u>	TITLE: <u>Administrative Officer</u>

7) PURPOSE OF SUBMISSION (check one)
 Initial Registration
 Annual Report
 Change of Name/Address/Owner
 100% Increase in inventory
 Other

8) PERMITS:
EPA Hazardous Waste
Generator #: CA7120090397
Do you have underground storage tank(s)?
Yes No (refer to attachment C)

9) FIRE DEPARTMENT COPY MAILED TO: _____ DATE: 3/22/96
Fresno City Fire Department, 450 M. St., Fresno, CA 93721

10) EMERGENCY PLANNING INFORMATION:
YES NO For State/Fed planning: We handle Acutely Hazardous Waste
YES NO School(s)/Hospital(s)/Extended Care Facilities within 1,000 feet of facility

RECEIVED
APR 11 1996

11) CERTIFICATION:
I certify under penalty of law, that I have personally examined and am familiar with the information and believe the submitted information is true, accurate, and complete.

PRINT NAME OF OWNER/OPERATOR: USDA Agricultural Research Service
PRINT NAME OF DOCUMENT PREPARER: Denice Chambers, Karen Valero
SIGNATURE OF OWNER/OPERATOR: Denice Chambers DATE: 4/10/96

Environmental Health System
Fresno Co Community Health Dept

FRESNO COUNTY COMMUNITY HEALTH DEPARTMENT

Environmental Health System

P.O. Box 11867, Fresno, CA 93775, (209) 445-3271

CHEMICAL DESCRIPTION INVENTORY FORM

1) COMMON NAME:	
2) CHEMICAL NAME: ETHYL ALCOHOL	
3) ACUTELY HAZARDOUS MATERIAL Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	4) CAS#: 64-17-5
5) PHYSICAL STATE: <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> Pure <input type="checkbox"/> Mixture <input type="checkbox"/> Radioactive (curies) _____ <input type="checkbox"/> Waste (annual amount generated) _____	
6) WASTE CLASSIFICATION: Enter the State Waste Number (DTSC form 8022A-Uniform Hazardous Waste Manifest, 3 digit code) <u>2 1 3</u>	
7) PHYSICAL HAZARD(S) <input checked="" type="checkbox"/> Fire <input type="checkbox"/> Reactive <input type="checkbox"/> Sudden Pressure Release	8) HEALTH HAZARD(S) <input type="checkbox"/> Immediate Health (acute) <input type="checkbox"/> Delayed Health (chronic)
9) AMOUNT & TIME AT FACILITY Units of measure: <input type="checkbox"/> lbs. <input type="checkbox"/> ft ³ <input checked="" type="checkbox"/> gals. <input type="checkbox"/> _____ Maximum amount (on site): <u>55</u> Largest size container: <u>5</u> Average daily amount (on site): <u>55</u> Days per year on-site: <u>365</u>	
10) STORAGE CODES a) container: <u>9</u> b) pressure: <u>1</u> c) temperature: <u>5</u>	
11) STORAGE LOCATION(S) Chemical Storage (Bldg. 027)	
12) MIXTURE / WASTE: List the three most hazardous chemical components	
1. Name _____	CAS# _____ %WT _____
2. Name _____	CAS# _____ %WT _____
3. Name _____	CAS# _____ %WT _____

Container Codes
(for item 10(a) above)

- 1-Underground Tank
- 2-Aboveground Tank
- 3-Fixed Pressurized Tank
- 4-Portable Pressurized Cylinder
- 5-Insulated Tank (Includes Cryogenics)
- 6-Drum or Barrel - Metallic
- 7-Drum or Barrel-Non-Metallic

- 8-Carboy
- 9-Glass Container
- 10-Plastic Container
- 11-Box
- 12-Bag
- 13-Metal Container (Not Drum)
- 14-In Machinery or Processing Equipment

- 15-Bin
- 16-Tank Inside Building
- 17-Silo
- 18-Cylinder
- 19-Tank Wagon
- 20-Rail Car
- 21-Other

Pressure and Temperature Codes
(for items 10(b) and (c) above)

- 1- The material is stored at standard (atmospheric) pressure
- 2 - The material is stored under pressure (compressed gasses)
- 3 - The material is stored less than standard pressure (in a vacuum)
- 4 - The material is stored at room temperature
- 5 - The material is stored above room temperature

RECEIVED

APR 11 1996

Environmental Health System
Fresno Co Community Health Dept.

(chem.bp)
Revised 1/94

FRESNO COUNTY COMMUNITY HEALTH DEPARTMENT
Environmental Health System
P.O. Box 11867, Fresno, CA 93775, (209) 445-3271
CHEMICAL DESCRIPTION INVENTORY FORM

1) COMMON NAME: GRAMOXONE EXTRA	
2) CHEMICAL NAME: PARAQUATE EXTRA	
3) ACUTELY HAZARDOUS MATERIAL Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	4) CAS#: 1910-42-5
5) PHYSICAL STATE: <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> Pure <input type="checkbox"/> Mixture <input type="checkbox"/> Radioactive (curies) _____ <input type="checkbox"/> Waste (annual amount generated) _____	
6) WASTE CLASSIFICATION: Enter the State Waste Number (DTSC form 8022A-Uniform Hazardous Waste Manifest, 3 digit code) <u>2 3 2</u>	
7) PHYSICAL HAZARD(S) <input type="checkbox"/> Fire <input type="checkbox"/> Reactive <input type="checkbox"/> Sudden Pressure Release	8) HEALTH HAZARD(S) <input checked="" type="checkbox"/> Immediate Health (acute) <input checked="" type="checkbox"/> Delayed Health (chronic)
9) AMOUNT & TIME AT FACILITY Units of measure: <input type="checkbox"/> lbs. <input type="checkbox"/> ft ³ <input checked="" type="checkbox"/> gals. <input type="checkbox"/> _____ Maximum amount (on site): <u>10</u> Largest size container: <u>2.5</u> Average daily amount (on site): <u>10</u> Days per year on-site: <u>365</u>	
10) STORAGE CODES a) container: <u>10</u> b) pressure: <u>1</u> c) temperature: <u>5</u>	
11) STORAGE LOCATION(S) CHEMICAL STORAGE (Bldg. 027)	
12) MIXTURE / WASTE: List the three most hazardous chemical components	
1. Name _____	CAS# _____ %WT _____
2. Name _____	CAS# _____ %WT _____
3. Name _____	CAS# _____ %WT _____

Container Codes
(for item 10(a) above)

- | | | |
|--|---|-------------------------|
| 1-Underground Tank | 8-Carboy | 15-Bin |
| 2-Aboveground Tank | 9-Glass Container | 16-Tank Inside Building |
| 3-Fixed Pressurized Tank | 10-Plastic Container | 17-Silo |
| 4-Portable Pressurized Cylinder | 11-Box | 18-Cylinder |
| 5-Insulated Tank (Includes Cryogenics) | 12-Bag | 19-Tank Wagon |
| 6-Drum or Barrel - Metallic | 13-Metal Container (Not Drum) | 20-Rail Car |
| 7-Drum or Barrel-Non-Metallic | 14-In Machinery or Processing Equipment | 21-Other |

Pressure and Temperature Codes
(for items 10(b) and (c) above)

- 1- The material is stored at standard (atmospheric) pressure
- 2 - The material is stored under pressure (compressed gasses)
- 3 - The material is stored less than standard pressure (in a vacuum)
- 4 - The material is stored at room temperature
- 5 - The material is stored above room temperature

FRESNO COUNTY COMMUNITY HEALTH DEPARTMENT

Environmental Health System

P.O. Box 11867, Fresno, CA 93775, (209) 445-3271

CHEMICAL DESCRIPTION INVENTORY FORM

1) COMMON NAME: PHOSPHINE	
2) CHEMICAL NAME:	
3) ACUTELY HAZARDOUS MATERIAL Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	4) CAS#: 7803-51-2
5) PHYSICAL STATE: <input type="checkbox"/> Solid <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Pure <input type="checkbox"/> Mixture <input type="checkbox"/> Radioactive (curies) _____ <input type="checkbox"/> Waste (annual amount generated) <u>0</u>	
6) WASTE CLASSIFICATION: Enter the State Waste Number (DTSC form 8022A-Uniform Hazardous Waste Manifest, 3 digit code) _____	
7) PHYSICAL HAZARD(S) <input checked="" type="checkbox"/> Fire <input type="checkbox"/> Reactive <input checked="" type="checkbox"/> Sudden Pressure Release	8) HEALTH HAZARD(S) <input checked="" type="checkbox"/> Immediate Health (acute) <input checked="" type="checkbox"/> Delayed Health (chronic)
9) AMOUNT & TIME AT FACILITY Units of measure: <input type="checkbox"/> lbs. <input checked="" type="checkbox"/> ft ³ <input type="checkbox"/> gals. <input type="checkbox"/> _____ Maximum amount (on site): <u>200</u> Largest size container: <u>200</u> Average daily amount (on site): <u>200</u> Days per year on-site: <u>365</u>	
10) STORAGE CODES a) container: <u>4</u> b) pressure: <u>2</u> c) temperature: <u>4</u>	
11) STORAGE LOCATION(S) <u>Bldg. 06</u>	
12) MIXTURE / WASTE: List the three most hazardous chemical components	
1. Name _____	CAS# _____ %WT _____
2. Name _____	CAS# _____ %WT _____
3. Name _____	CAS# _____ %WT _____

Container Codes
(for item 10(a) above)

- 1-Underground Tank
- 2-Aboveground Tank
- 3-Fixed Pressurized Tank
- 4-Portable Pressurized Cylinder
- 5-Insulated Tank (Includes Cryogenics)
- 6-Drum or Barrel - Metallic
- 7-Drum or Barrel-Non-Metallic

- 8-Carboy
- 9-Glass Container
- 10-Plastic Container
- 11-Box
- 12-Bag
- 13-Metal Container (Not Drum)
- 14-In Machinery or Processing Equipment

- 15-Bin
- 16-Tank Inside Building
- 17-Silo
- 18-Cylinder
- 19-Tank Wagon
- 20-Rail Car
- 21-Other

Pressure and Temperature Codes
(for items 10(b) and (c) above)

- 1- The material is stored at standard (atmospheric) pressure
- 2 - The material is stored under pressure (compressed gasses)
- 3 - The material is stored less than standard pressure (in a vacuum)
- 4 - The material is stored at room temperature
- 5 - The material is stored above room temperature

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Environmental Health System
Fresno Co Community Health Dept

(chem.bp)
Revised 1/94

FRESNO COUNTY COMMUNITY HEALTH DEPARTMENT
Environmental Health System
P.O. Box 11867, Fresno, CA 93775, (209) 445-3271
CHEMICAL DESCRIPTION INVENTORY FORM

1) COMMON NAME: ARGON	
2) CHEMICAL NAME:	
3) ACUTELY HAZARDOUS MATERIAL Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	4) CAS#: 7440-37-1
5) PHYSICAL STATE: <input type="checkbox"/> Solid <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Pure <input type="checkbox"/> Mixture <input type="checkbox"/> Radioactive (curies) _____ <input type="checkbox"/> Waste (annual amount generated) _____	
6) WASTE CLASSIFICATION: Enter the State Waste Number (DTSC form 8022A-Uniform Hazardous Waste Manifest, 3 digit code) _ _ _	
7) PHYSICAL HAZARD(S) <input type="checkbox"/> Fire <input type="checkbox"/> Reactive <input checked="" type="checkbox"/> Sudden Pressure Release	8) HEALTH HAZARD(S) <input checked="" type="checkbox"/> Immediate Health (acute) <input type="checkbox"/> Delayed Health (chronic)
9) AMOUNT & TIME AT FACILITY Units of measure: <input type="checkbox"/> lbs. <input checked="" type="checkbox"/> ft ³ <input type="checkbox"/> gals. <input type="checkbox"/> _____ Maximum amount (on site): 600 Largest size container: 200 Average daily amount (on site): 600 Days per year on-site: 365	
10) STORAGE CODES a) container: 4 b) pressure: 2 c) temperature: 4	
11) STORAGE LOCATION(S) Bldg. 013, 011	
12) MIXTURE / WASTE: List the three most hazardous chemical components	
1. Name _____	CAS# _____ %WT _____
2. Name _____	CAS# _____ %WT _____
3. Name _____	CAS# _____ %WT _____

Container Codes
(for item 10(a) above)

- | | | |
|--|---|-------------------------|
| 1-Underground Tank | 8-Carboy | 15-Bin |
| 2-Aboveground Tank | 9-Glass Container | 16-Tank Inside Building |
| 3-Fixed Pressurized Tank | 10-Plastic Container | 17-Silo |
| 4-Portable Pressurized Cylinder | 11-Box | 18-Cylinder |
| 5-Insulated Tank (Includes Cryogenics) | 12-Bag | 19-Tank Wagon |
| 6-Drum or Barrel - Metallic | 13-Metal Container (Not Drum) | 20-Rail Car |
| 7-Drum or Barrel-Non-Metallic | 14-In Machinery or Processing Equipment | 21-Other |

Pressure and Temperature Codes
(for items 10(b) and (c) above)

- 1- The material is stored at standard (atmospheric) pressure
- 2 - The material is stored under pressure (compressed gasses)
- 3 - The material is stored less than standard pressure (in a vacuum)
- 4 - The material is stored at room temperature
- 5 - The material is stored above room temperature

FRESNO COUNTY COMMUNITY HEALTH DEPARTMENT
Environmental Health System
P.O. Box 11867, Fresno, CA 93775, (209) 445-3271
CHEMICAL DESCRIPTION INVENTORY FORM

1) COMMON NAME: METHANE	
2) CHEMICAL NAME:	
3) ACUTELY HAZARDOUS MATERIAL Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	4) CAS#: 74-82-8
5) PHYSICAL STATE: <input type="checkbox"/> Solid <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Pure <input type="checkbox"/> Mixture <input type="checkbox"/> Radioactive (curies) _____ <input type="checkbox"/> Waste (annual amount generated) _____	
6) WASTE CLASSIFICATION: Enter the State Waste Number (DTSC form 8022A-Uniform Hazardous Waste Manifest, 3 digit code) _ _ _	
7) PHYSICAL HAZARD(S) <input checked="" type="checkbox"/> Fire <input type="checkbox"/> Reactive <input checked="" type="checkbox"/> Sudden Pressure Release	8) HEALTH HAZARD(S) <input checked="" type="checkbox"/> Immediate Health (acute) <input type="checkbox"/> Delayed Health (chronic)
9) AMOUNT & TIME AT FACILITY Units of measure: <input type="checkbox"/> lbs. <input checked="" type="checkbox"/> ft ³ <input type="checkbox"/> gals. <input type="checkbox"/> _____ Maximum amount (on site): 600 Largest size container: 200 Average daily amount (on site): 600 Days per year on-site: 365	
10) STORAGE CODES a) container: 4 b) pressure: 2 c) temperature: 4	
11) STORAGE LOCATION(S) Bldg. 013, 011	
12) MIXTURE / WASTE: List the three most hazardous chemical components	
1. Name _____	CAS# _____ %WT _____
2. Name _____	CAS# _____ %WT _____
3. Name _____	CAS# _____ %WT _____

Container Codes
(for item 10(a) above)

- | | | |
|--|---|-------------------------|
| 1-Underground Tank | 8-Carboy | 15-Bin |
| 2-Aboveground Tank | 9-Glass Container | 16-Tank Inside Building |
| 3-Fixed Pressurized Tank | 10-Plastic Container | 17-Silo |
| 4-Portable Pressurized Cylinder | 11-Box | 18-Cylinder |
| 5-Insulated Tank (Includes Cryogenics) | 12-Bag | 19-Tank Wagon |
| 6-Drum or Barrel - Metallic | 13-Metal Container (Not Drum) | 20-Rail Car |
| 7-Drum or Barrel-Non-Metallic | 14-In Machinery or Processing Equipment | 21-Other |

Pressure and Temperature Codes
(for items 10(b) and (c) above)

- 1- The material is stored at standard (atmospheric) pressure
- 2 - The material is stored under pressure (compressed gasses)
- 3 - The material is stored less than standard pressure (in a vacuum)
- 4 - The material is stored at room temperature
- 5 - The material is stored above room temperature

FRESNO COUNTY COMMUNITY HEALTH DEPARTMENT
 Environmental Health System
 P.O. Box 11867, Fresno, CA 93775, (209) 445-3271
CHEMICAL DESCRIPTION INVENTORY FORM

1) COMMON NAME: <u>ETHYNE</u>	
2) CHEMICAL NAME: <u>ACETYLENE</u>	
3) ACUTELY HAZARDOUS MATERIAL Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	4) CAS#: <u>74-86-2</u>
5) PHYSICAL STATE: <input type="checkbox"/> Solid <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Pure <input type="checkbox"/> Mixture <input type="checkbox"/> Radioactive (curies) _____ <input type="checkbox"/> Waste (annual amount generated) _____	
6) WASTE CLASSIFICATION: Enter the State Waste Number (DTSC form 8022A-Uniform Hazardous Waste Manifest, 3 digit code) <u> </u> <u> </u> <u> </u>	
7) PHYSICAL HAZARD(S) <input checked="" type="checkbox"/> Fire <input type="checkbox"/> Reactive <input checked="" type="checkbox"/> Sudden Pressure Release	8) HEALTH HAZARD(S) <input checked="" type="checkbox"/> Immediate Health (acute) <input type="checkbox"/> Delayed Health (chronic)
9) AMOUNT & TIME AT FACILITY Units of measure: <input type="checkbox"/> lbs. <input checked="" type="checkbox"/> ft ³ <input type="checkbox"/> gals. <input type="checkbox"/> _____ Maximum amount (on site): <u>800</u> Largest size container: <u>200</u> Average daily amount (on site): <u>800</u> Days per year on-site: <u>365</u>	
10) STORAGE CODES a) container: <u>4</u> b) pressure: <u>2</u> c) temperature: <u>4</u>	
11) STORAGE LOCATION(S) <u>Bldgs. 038, 039</u>	
12) MIXTURE / WASTE: List the three most hazardous chemical components	
1. Name _____	CAS# _____ %WT _____
2. Name _____	CAS# _____ %WT _____
3. Name _____	CAS# _____ %WT _____

Container Codes
(for item 10(a) above)

- | | | |
|--|---|-------------------------|
| 1-Underground Tank | 8-Carboy | 15-Bin |
| 2-Aboveground Tank | 9-Glass Container | 16-Tank Inside Building |
| 3-Fixed Pressurized Tank | 10-Plastic Container | 17-Silo |
| 4-Portable Pressurized Cylinder | 11-Box | 18-Cylinder |
| 5-Insulated Tank (Includes Cryogenics) | 12-Bag | 19-Tank Wagon |
| 6-Drum or Barrel - Metallic | 13-Metal Container (Not Drum) | 20-Rail Car |
| 7-Drum or Barrel-Non-Metallic | 14-In Machinery or Processing Equipment | 21-Other |

Pressure and Temperature Codes
(for items 10(b) and (c) above)

- 1- The material is stored at standard (atmospheric) pressure
- 2 - The material is stored under pressure (compressed gasses)
- 3 - The material is stored less than standard pressure (in a vacuum)
- 4 - The material is stored at room temperature
- 5 - The material is stored above room temperature

FRESNO COUNTY COMMUNITY HEALTH DEPARTMENT
Environmental Health System
P.O. Box 11867, Fresno, CA 93775, (209) 445-3271
CHEMICAL DESCRIPTION INVENTORY FORM

1) COMMON NAME: NITROGEN	
2) CHEMICAL NAME:	
3) ACUTELY HAZARDOUS MATERIAL Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	4) CAS#: 7727-37-9
5) PHYSICAL STATE: <input type="checkbox"/> Solid <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Pure <input type="checkbox"/> Mixture <input type="checkbox"/> Radioactive (curies) _____ <input type="checkbox"/> Waste (annual amount generated) _____	
6) WASTE CLASSIFICATION: Enter the State Waste Number (DTSC form 8022A-Uniform Hazardous Waste Manifest, 3 digit code) _ _ _	
7) PHYSICAL HAZARD(S) <input type="checkbox"/> Fire <input type="checkbox"/> Reactive <input checked="" type="checkbox"/> Sudden Pressure Release	8) HEALTH HAZARD(S) <input checked="" type="checkbox"/> Immediate Health (acute) <input type="checkbox"/> Delayed Health (chronic)
9) AMOUNT & TIME AT FACILITY Units of measure: <input type="checkbox"/> lbs. <input checked="" type="checkbox"/> ft ³ <input type="checkbox"/> gals. <input type="checkbox"/> _____ Maximum amount (on site): 5,000 Largest size container: 200 Average daily amount (on site): 5,000 Days per year on-site: 365	
10) STORAGE CODES a) container: 4 b) pressure: 2 c) temperature: 4	
11) STORAGE LOCATION(S) Bldgs. 06, 05, 02, 013, 016, 011, 037, 038	
12) MIXTURE / WASTE: List the three most hazardous chemical components	
1. Name _____	CAS# _____ %WT _____
2. Name _____	CAS# _____ %WT _____
3. Name _____	CAS# _____ %WT _____

Container Codes
(for item 10(a) above)

- | | | |
|--|---|-------------------------|
| 1-Underground Tank | 8-Carboy | 15-Bin |
| 2-Aboveground Tank | 9-Glass Container | 16-Tank Inside Building |
| 3-Fixed Pressurized Tank | 10-Plastic Container | 17-Silo |
| 4-Portable Pressurized Cylinder | 11-Box | 18-Cylinder |
| 5-Insulated Tank (Includes Cryogenics) | 12-Bag | 19-Tank Wagon |
| 6-Drum or Barrel - Metallic | 13-Metal Container (Not Drum) | 20-Rail Car |
| 7-Drum or Barrel-Non-Metallic | 14-In Machinery or Processing Equipment | 21-Other |

Pressure and Temperature Codes
(for items 10(b) and (c) above)

- 1- The material is stored at standard (atmospheric) pressure
- 2 - The material is stored under pressure (compressed gasses)
- 3 - The material is stored less than standard pressure (in a vacuum)
- 4 - The material is stored at room temperature
- 5 - The material is stored above room temperature

FRESNO COUNTY COMMUNITY HEALTH DEPARTMENT
 Environmental Health System
 P.O. Box 11867, Fresno, CA 93775, (209) 445-3271
CHEMICAL DESCRIPTION INVENTORY FORM

1) COMMON NAME: HYDROGEN	
2) CHEMICAL NAME:	
3) ACUTELY HAZARDOUS MATERIAL Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	4) CAS#: 1333-74-0
5) PHYSICAL STATE: <input type="checkbox"/> Solid <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Pure <input type="checkbox"/> Mixture <input type="checkbox"/> Radioactive (curies) _____ <input type="checkbox"/> Waste (annual amount generated) _____	
6) WASTE CLASSIFICATION: Enter the State Waste Number (DTSC form 8022A-Uniform Hazardous Waste Manifest, 3 digit code) _ _ _	
7) PHYSICAL HAZARD(S) <input checked="" type="checkbox"/> Fire <input type="checkbox"/> Reactive <input checked="" type="checkbox"/> Sudden Pressure Release	8) HEALTH HAZARD(S) <input checked="" type="checkbox"/> Immediate Health (acute) <input type="checkbox"/> Delayed Health (chronic)
9) AMOUNT & TIME AT FACILITY Units of measure: <input type="checkbox"/> lbs. <input checked="" type="checkbox"/> ft ³ <input type="checkbox"/> gals. <input type="checkbox"/> _____ Maximum amount (on site): 3,000 Largest size container: 200 Average daily amount (on site): 3,000 Days per year on-site: 365	
10) STORAGE CODES a) container: 4 b) pressure: 2 c) temperature: 4	
11) STORAGE LOCATION(S) Bldgs. 06, 05, 02, 013, 011, 037	
12) MIXTURE / WASTE: List the three most hazardous chemical components	
1. Name _____	CAS# _____ %WT _____
2. Name _____	CAS# _____ %WT _____
3. Name _____	CAS# _____ %WT _____

Container Codes
(for item 10(a) above)

- 1-Underground Tank
- 2-Aboveground Tank
- 3-Fixed Pressurized Tank
- 4-Portable Pressurized Cylinder
- 5-Insulated Tank (Includes Cryogenics)
- 6-Drum or Barrel - Metallic
- 7-Drum or Barrel-Non-Metallic

- 8-Carboy
- 9-Glass Container
- 10-Plastic Container
- 11-Box
- 12-Bag
- 13-Metal Container (Not Drum)
- 14-In Machinery or Processing Equipment

- 15-Bin
- 16-Tank Inside Building
- 17-Silo
- 18-Cylinder
- 19-Tank Wagon
- 20-Rail Car
- 21-Other

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Pressure and Temperature Codes
(for items 10(b) and (c) above)

- 1- The material is stored at standard (atmospheric) pressure
- 2 - The material is stored under pressure (compressed gasses)
- 3 - The material is stored less than standard pressure (in a vacuum)
- 4 - The material is stored at room temperature
- 5 - The material is stored above room temperature

Environmental Health System
 Fresno Co Community Health Dept.

FRESNO COUNTY COMMUNITY HEALTH DEPARTMENT
Environmental Health System
P.O. Box 11867, Fresno, CA 93775, (209) 445-3271
CHEMICAL DESCRIPTION INVENTORY FORM

1) COMMON NAME: <u>HELIUM</u>	
2) CHEMICAL NAME: _____	
3) ACUTELY HAZARDOUS MATERIAL Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	4) CAS#: <u>7440-59-7</u>
5) PHYSICAL STATE: <input type="checkbox"/> Solid <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Pure <input type="checkbox"/> Mixture <input type="checkbox"/> Radioactive (curies) _____ <input type="checkbox"/> Waste (annual amount generated) _____	
6) WASTE CLASSIFICATION: Enter the State Waste Number (DTSC form 8022A-Uniform Hazardous Waste Manifest, 3 digit code) _ _ _	
7) PHYSICAL HAZARD(S) <input type="checkbox"/> Fire <input type="checkbox"/> Reactive <input checked="" type="checkbox"/> Sudden Pressure Release	8) HEALTH HAZARD(S) <input checked="" type="checkbox"/> Immediate Health (acute) <input type="checkbox"/> Delayed Health (chronic)
9) AMOUNT & TIME AT FACILITY Units of measure: <input type="checkbox"/> lbs. <input checked="" type="checkbox"/> ft ³ <input type="checkbox"/> gals. <input type="checkbox"/> _____ Maximum amount (on site): <u>3,000</u> Largest size container: <u>200</u> Average daily amount (on site): <u>3,000</u> Days per year on-site: <u>365</u>	
10) STORAGE CODES a) container: <u>4</u> b) pressure: <u>2</u> c) temperature: <u>4</u>	
11) STORAGE LOCATION(S) Bldgs. 05, 013, 01, 011, 037	
12) MIXTURE / WASTE: List the three most hazardous chemical components	
1. Name _____	CAS# _____ %WT _____
2. Name _____	CAS# _____ %WT _____
3. Name _____	CAS# _____ %WT _____

Container Codes
(for item 10(a) above)

- | | | |
|--|---|-------------------------|
| 1-Underground Tank | 8-Carboy | 15-Bin |
| 2-Aboveground Tank | 9-Glass Container | 16-Tank Inside Building |
| 3-Fixed Pressurized Tank | 10-Plastic Container | 17-Silo |
| 4-Portable Pressurized Cylinder | 11-Box | 18-Cylinder |
| 5-Insulated Tank (Includes Cryogenics) | 12-Bag | 19-Tank Wagon |
| 6-Drum or Barrel - Metallic | 13-Metal Container (Not Drum) | 20-Rail Car |
| 7-Drum or Barrel-Non-Metallic | 14-In Machinery or Processing Equipment | 21-Other |

Pressure and Temperature Codes
(for items 10(b) and (c) above)

- 1- The material is stored at standard (atmospheric) pressure
- 2 - The material is stored under pressure (compressed gasses)
- 3 - The material is stored less than standard pressure (in a vacuum)
- 4 - The material is stored at room temperature
- 5 - The material is stored above room temperature

FRESNO COUNTY COMMUNITY HEALTH DEPARTMENT
 Environmental Health System
 P.O. Box 11867, Fresno, CA 93775, (209) 445-3271
CHEMICAL DESCRIPTION INVENTORY FORM

1) COMMON NAME: C02	
2) CHEMICAL NAME:	
3) ACUTELY HAZARDOUS MATERIAL Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	4) CAS#: 124-38-9
5) PHYSICAL STATE: <input type="checkbox"/> Solid <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Pure <input type="checkbox"/> Mixture <input type="checkbox"/> Radioactive (curies) _____ <input type="checkbox"/> Waste (annual amount generated) _____	
6) WASTE CLASSIFICATION: Enter the State Waste Number (DTSC form 8022A-Uniform Hazardous Waste Manifest, 3 digit code) _____	
7) PHYSICAL HAZARD(S) <input type="checkbox"/> Fire <input type="checkbox"/> Reactive <input checked="" type="checkbox"/> Sudden Pressure Release	8) HEALTH HAZARD(S) <input checked="" type="checkbox"/> Immediate Health (acute) <input type="checkbox"/> Delayed Health (chronic)
9) AMOUNT & TIME AT FACILITY Units of measure: <input type="checkbox"/> lbs. <input checked="" type="checkbox"/> ft ³ <input type="checkbox"/> gals. <input type="checkbox"/> _____ Maximum amount (on site): 1,000 Largest size container: 200 Average daily amount (on site): 1,000 Days per year on-site: 365	
10) STORAGE CODES a) container: 4 b) pressure: 2 c) temperature: 4	
11) STORAGE LOCATION(S) Bldgs. 05, 037	
12) MIXTURE / WASTE: List the three most hazardous chemical components	
1. Name _____	CAS# _____ %WT _____
2. Name _____	CAS# _____ %WT _____
3. Name _____	CAS# _____ %WT _____

Container Codes
(for item 10(a) above)

- | | | |
|--|---|-------------------------|
| 1-Underground Tank | 8-Carboy | 15-Bin |
| 2-Aboveground Tank | 9-Glass Container | 16-Tank Inside Building |
| 3-Fixed Pressurized Tank | 10-Plastic Container | 17-Silo |
| 4-Portable Pressurized Cylinder | 11-Box | 18-Cylinder |
| 5-Insulated Tank (Includes Cryogenics) | 12-Bag | 19-Tank Wagon |
| 6-Drum or Barrel - Metallic | 13-Metal Container (Not Drum) | 20-Rail Car |
| 7-Drum or Barrel-Non-Metallic | 14-In Machinery or Processing Equipment | 21-Other |

Pressure and Temperature Codes
(for items 10(b) and (c) above)

- 1- The material is stored at standard (atmospheric) pressure
- 2 - The material is stored under pressure (compressed gasses)
- 3 - The material is stored less than standard pressure (in a vacuum)
- 4 - The material is stored at room temperature
- 5 - The material is stored above room temperature

NOTE:

Compressed air, as well as mixtures of the listed compressed gasses, may also be found in the following locations:

Bldgs. 02, 05, 06, 013, 016, 011, 037



**HEALTH SERVICES AGENCY
COMMUNITY HEALTH DEPARTMENT
Environmental Health Application**

P.O. Box 11800, Fresno, California 93775
1221 Fulton Mall - ☎ (209) 445-3357

PLEASE PRINT OR TYPE

Business Name _____

Inspection Site Address _____

Date of Business Commencement 4/10/96

Business Telephone (209) 453-3005

Billing Address USDA

2021 S. Peach

FRESNO CA 93727

Business Owner ~~same as billing~~

Owner Address _____

Telephone _____

The Applicant hereby agrees to abide by all applicable Federal, State, and Fresno County statutes, laws, regulations, and the Fresno County Charter Ordinances and to pay all applicable Fresno County Environmental Health Permit and Inspection Fees, and late penalties, if any, which apply to the Permit which is being applied for here. PENALTIES FOR LATE PAYMENT ARE ASSESSED AT 10% PER MONTH OR FRACTION THEREOF. Notify Environmental Health of any change in the type of business activity, name, billing address, or ownership by calling 445-3357. Failure to notify Environmental Health may result in late penalties, Permit denial or revocation, and business closure. PERMITS AND FEES ARE NOT TRANSFERABLE.

Owner / Authorized Representative _____ **Title** _____ **Date** _____
— DO NOT WRITE BELOW THIS LINE —

Record ID#	Prog Elem #	Fee/Activity Description	Billing Code	Fee
	<u>12244</u>	<u>HAZ Mats > 10,000 units</u>		<u>0 fee exempt</u>
	<u>6307</u>			
	<u>6710</u>			

Penalty Calculation:

Penalty Due _____
TOTAL AMOUNT DUE 0

RETURN TO: _____ Date Left: _____ ROUTE TO: Business Envision File
 New Business Ownership Change Business Name Change Billing Address Change Other
 Close(inactive) Close(delete) Closure Date _____ Site Correction/Change Activity Change

Comments add activity

Business Name USDA Agricultural Research Owner USDA

Inspection Site 2021 S. Peach Census Tract # 1406 City Code 05

Business ID # 110540 Tank # _____ Permit Code __ Designated Employee ID # 1000

Application Approved By: [Signature] Employee ID# 2226 Date 4/6/96

Envision updated by [Signature] Date 10/22/96

Supervisor Review [Signature] ///

4/10/96



Health
Services
Agency

FA0170540
PR0050237
PE 2244 CX

George Bleth
Agency Director

September 9, 1996

Denice Chambers
USDA Agricultural Research Service
2021 South Peach
Fresno, California 93727

Dear Ms. Chambers:

DEFICIENCY LETTER - Hazardous Materials Business Plan
Location: 2021 S. Peach, Fresno

On April 11, 1996, this office received a Hazardous Materials Business Plan for your facility as required by California Health and Safety Code, Division 20, Chapter 6.95. The Business Plan has been reviewed and was found to be deficient. In order for your plan to be accepted as complete, the following information must be submitted;

Health and Safety/Emergency Response Planning

In order for your plan to be accepted as complete it must include a comprehensive health and safety planning document. The Hazardous Materials Business Plan Instruction Booklet provided by this office should provide some assistance in developing an adequate plan.

Submit the required information to this office and your local fire department within thirty (30) days of the date of this letter.

Please contact me with any questions you may have regarding this letter at (209) 445-3271.

Sincerely,

Lea Spann
Environmental Health Analyst
Environmental Health System

LS:kmj

Gary Carozza, Director
Community Health Department
1221 Fulton Mall • P.O. Box 11867 • Fresno, California 93775
Phone 209-445-0666



United States
Department of
Agriculture

Agricultural
Research
Service

Pacific West Area

2021 S. Peach Avenue
Fresno, Ca 93727

Administrative Office

TEL: (209) 453-3005
FAX: (209) 453-3011

October 3, 1996

Lea Spann
Community Health Department
Environmental Health System
Hazardous Materials Section
1221 Fulton Mall
P.O. Box 11867
Fresno, CA 93775

RECEIVED
OCT 04 1996

Environmental Health System
Fresno Co Community Health Dept.

Dear Ms. Spann,

Enclosed are the documents you requested in your deficiency letter of September 9, 1996, in order for our Location to complete our Hazardous Materials Business Plan. If you have any questions, please give me a call.

Sincerely,

Denice Chambers

Denice Chambers
Administrative Officer

Encl: (1)

cc: Fresno Fire Department

Health and Safety Plan
USDA - ARS
Horticultural Crops Research Unit
2021 S. Peach
Fresno, CA 93727

RECEIVED
OCT 04 1996

Environmental Health System
Fresno Co Community Health Dept.

RELEASE PREVENTION

The primary method of release prevention is to keep purchasing and use of hazardous materials to a minimum. Chemicals are to be purchased in the smallest quantity possible for doing the job. Proper handling and storage policies are practiced.

Chemical Storage

All chemicals are stored in their original container or in a labeled spill proof container. All large containers of chemicals are to be stored with compatible materials in locked, specialized buildings or cabinets to protect them from the elements and provide spill containment. Working amounts of chemicals are kept within the labs in labeled containers and are stored in cabinets according to compatibility.

Inspection Protocols

The main storage facilities and hazardous waste marshaling areas are inspected weekly.

Smoking is not allowed near storage containers.

Transfer of Chemicals

Chemicals are to be transferred from one container to another in adequately ventilated areas, such as fume hoods. Chemicals are otherwise handled as recommended by the manufacturer.

Employee Training

Employees have been trained in small spill cleanup. For any larger spills, employees are to call 911 (HazMat). An evacuation plan has been developed and is available to all employees and posted in labs (see attached). Other training is specific to materials used and is done by the supervisor.

IMMEDIATE NOTIFICATION AND EVACUATION

Notification of employees

Under normal laboratory conditions, no chemicals are present in quantities that could not be handled in a non emergency manner with available spill cleanup materials should a spill occur. In the case of any unforeseen occurrence employee notification and evacuation would be handled like a fire. Employees aware of a hazardous situation are to immediately evacuate the area, call 911, and notify the administrative office for station evacuation. A Public Address system and alarm system are available to notify station personnel.

The names and home phone numbers of persons qualified to act as an emergency coordinator are posted throughout the location and in the emergency action plan to handle situations that might occur during off hours..

Evacuation of Employees

All employees are to evacuate in the event of a hazardous situation. Employees are trained in standard first aid and CPR which is offered to all on a yearly basis.

All exits are clearly marked and periodic fire drills are held on the location. A staging area has been identified and is indicated on each evacuation map. Personnel within each unit have been assigned to do a head count in the event of an evacuation.

Notification of Emergency Response Agencies

The fire department has toured the station and has been advised of the chemicals on the station and their location. The fire department has not requested us to make any special arrangements for the coordination of emergency response.

The first person safely away from a fire or other hazardous situation is to call 911. Fire alarm system automatically calls fire department when activated.

Appropriate agencies will be notified as necessary, including local police and fire agencies, the Fresno County Environmental Health System 445-3271 or after hours 488-3111 and the California Office of Emergency services 1-800-852-7550. Information on the exact location of a release, name of the person calling and a call back number, the materials involved, quantity and potential hazards will be provided them.

Notification of other Resources

The USDA Agricultural Research Service provides Cluster Environmental Protection Specialists who will be notified and serve as a resource for other personnel/agencies to be notified.

Notification of Neighbors

It is not likely that a spill will necessitate the notification of adjacent properties. In the event of a fire, the fire department will decide the necessity of neighborhood notification.

INJURY AND ILLNESS PREVENTION PROGRAM

USDA - ARS

Horticultural Crops Research Unit

2021 S. Peach

Fresno, CA 93727

RECEIVED

OCT 04 1996

Environmental Health System
Fresno Co Community Health Dept.

The Location Administrative Officer (LAO) has the authority and responsibility for implementing the injury and illness prevention program.

All employees are informed that safety is a part of their job. Support and participation in safety, employee health and environmental protection programs are a factor in technical employees performance evaluation. Each employee has a station safety manual and unit chemical hygiene plan. Employees are expected to report (to their supervisor, safety committee or the LAO) and abate any hazardous situation that they observe.

Monthly location safety briefings are held with various topics discussed. Safety films are selected from the Greater Los Angeles Chapter of the National Safety Council's film catalog that pertain to our present needs and concerns.

Location safety inspections are held annually by the safety committee members. The Cluster Environmental Protection Specialist from the location and safety personnel from the area office conduct on-site inspections.

The USDA, Agricultural Research Service (ARS) has an Occupational Health Maintenance program. Employees that may be exposed to unsafe working conditions are required to have annual physical examinations. Any abnormalities are reported to the LAO and the supervisor.

The ARS has an active safety training program. CPR and First Aid training are presented annually. OSHA safety training is available annually. The location and area safety officers offer training courses in applicable areas as needed.

FIRE PREVENTION PLAN
USDA - ARS
Horticultural Crops Research Unit
2021 S. Peach
Fresno, CA 93727

Flammable chemicals are not stored in large quantities on this location. Any chemical listed as flammable is to be stored in a flammable storage cabinet which is inspected weekly for chemical leaks or improper containers. Small working amounts may be kept in the lab. Smoking is not allowed in any of the buildings or near any flammable substances. Welding is to be done only in or around the shop area.

Fire extinguishers are serviced yearly by a commercial service company. Personnel are responsible for checking fire extinguishers in their area to insure they are in proper working order on a monthly basis.

The Research Leaders from each unit are to insure that the grounds in their area are maintained in a manner as to minimize there being a fire hazard (i.e. no excessive dry weeds or accumulation of flammable or combustible materials).

**EMERGENCY ACTION PLAN
USDA - ARS
Horticultural Crops Research Unit
2021 S. Peach
Fresno, CA 93727**

In the event of any emergency all employees are to evacuate to the assembly point North of the circle drive by the Area Office as shown on the evacuation map. See attached.

Fire extinguishers are required in all areas for control of small fires or to aid in escaping an area. Anyone safely away from a hazardous situation should call, or have someone call 911 and also notify the administrative office.

In the event of a fire in one unit on the location the administrative office shall use the public address system to notify others of the situation and **ALL UNITS SHOULD EVACUATE**. Information on the advisability of returning to each unit will be determined when it's safe to do so.

Personnel have been assigned from each unit to maintain a list of all current employees in their unit and shall be responsible for accounting for personnel from that unit in the event of an emergency.

Denice Chambers, Location Administrative Officer, 453-3006 may be contacted at the station for any additional information. Emergency contact numbers for off hours are:

Louis Aung	323-1037
Tom Trout	299-3210
Laurie Houck	252-8548
Craig Ledbetter	291-0108
Pat Vail	439-3753

HAZZARD COMMUNICATION
USDA - ARS
Horticultural Crops Research Unit
2021 S. Peach
Fresno, CA 93727

A safety manual and chemical hygiene plan are issued to each employee. Safety issues common to the station are covered in the safety manual and chemical hygiene issues common to each unit are covered in their chemical hygiene plan. As hazardous chemicals vary in each lab it is the responsibility of the supervisor to develop Standard Operating Procedures for any operations unique to that lab and to maintain Material Safety Data Sheets, in the lab and at the administrative office, for any hazardous chemicals they use in the lab. It is also the supervisors responsibility to ensure that all personal protective equipment (PPE) be available for employees.

All employees are required to follow safe working procedures and also to endeavor to identify and abate any safety problems. A current list of chemicals shall be maintained and communicated to the unit chemical hygiene officer.

All chemicals should be kept in their original containers. If necessary to transfer them for any reason the container must be labeled as to its contents.

If an employee has any questions regarding a chemical they are using they should consult the MSDS, their supervisor, or chemical hygiene officer.

Training is performed on various aspects of chemical handling (from proper use of a fume hood and spill cleanup, to proper disposal of hazardous chemicals). As needs vary, anyone requesting special training shall receive it.

CONTINGENCY PLAN
USDA - ARS
Horticultural Crops Research Unit
2021 S. Peach
Fresno, CA 93727

The Fresno fire department has toured the station and is aware of the chemicals present and their location.

Denice Chambers, Location Administrative Officer, 453-3006 may be contacted for any additional information. Emergency contact numbers outside normal hours of operation are:

Louis Aung	323-1037
Tom Trout	299-3210
Laurie Houck	252-8548
Craig Ledbetter	291-0108
Pat Vail	439-3753

These numbers are also posted throughout the location.

Fire extinguishers and spill kits are required in all working areas throughout the location. The Public address system can be accessed by dialing 61 from any phone on the station. An alarm system that automatically calls the fire department when activated is available in most buildings.

Hazardous Material Management Plan
USDA - ARS
Horticultural Crops Research Unit
2021 S. Peach
Fresno, CA 93727

1. Site plan, see attached.
- 2 Building floor plan, see attached.
3. Hazardous materials are to be handled according to the specifications listed for that chemical on the Material Safety Data Sheet (MSDS).

All chemicals are stored in their original container or in a labeled spill proof container. All large containers of chemicals are to be stored with compatible materials in locked, specialized buildings or cabinets to protect them from the elements and provide spill containment. Working amounts of chemicals are kept within the labs in labeled containers.

Chemicals are to be transferred between containers in adequately ventilated areas, such as fume hoods. Chemicals are otherwise handled as recommended by the manufacturer.

4. Chemicals will be stored in the proper storage areas. Corrosives (inorganic acids), Caustics (bases or alkalines), flammables, oxidizers, and pesticides will be stored in separate storage containers.
5. Large hazardous materials storage containers and the hazardous waste marshaling area are to be inspected weekly to evaluate container condition and the occurrence of any leaks. An inspection record is to be kept.
6. Chemicals are stored in locked cabinets. The location is locked after normal working hours. Personnel are directed to report any suspicious persons on the location during working hours.
7. All containers containing flammable materials are to be labeled as such and smoking is to be prohibited. Any area containing flammable gasses are to

be labeled the same. Storage containers with other chemicals should be labeled as to type.

8. See no. 5.

9. A safety manual and chemical hygiene plan are issued to each employee. Safety issues common to the station are covered in the safety manual and chemical hygiene issues common to each unit are covered in their chemical hygiene plan. As hazardous chemicals vary in each lab it is the responsibility of the supervisor to develop Standard Operating Procedures for any operations unique to that lab and to maintain MSDS, in the lab and at the administrative office, for any hazardous chemicals they use in the lab. It is also the supervisors responsibility to ensure that all personal protective equipment (PPE) be available for employees.

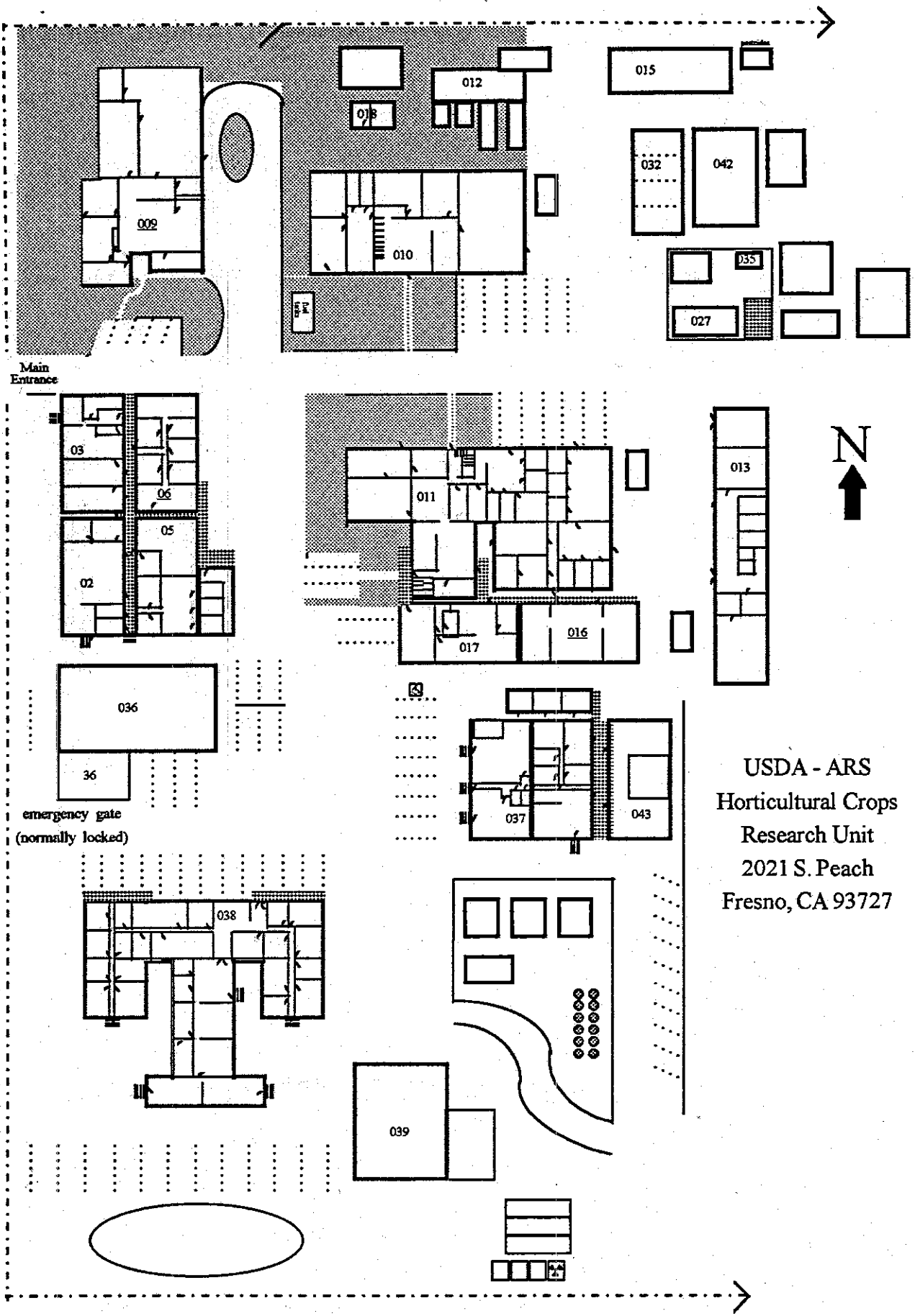
All employees are required to follow safe working procedures and also to also endeavor to identify and abate any safety problems. A current list of chemicals shall be maintained and communicated to the unit chemical hygiene officer.

Monthly location safety briefings are held with various topics discussed. Safety films are selected from the Greater Los Angeles Chapter of the National Safety Council's film catalog that pertain to our present needs and concerns.

Training specific to any lab will be made available on location or by attendance of a program designed for that area.

10. Spill cleanup kits are available throughout the location. Eye washes and emergency showers are available where the nature of the work makes them appropriate.

Peach Ave.



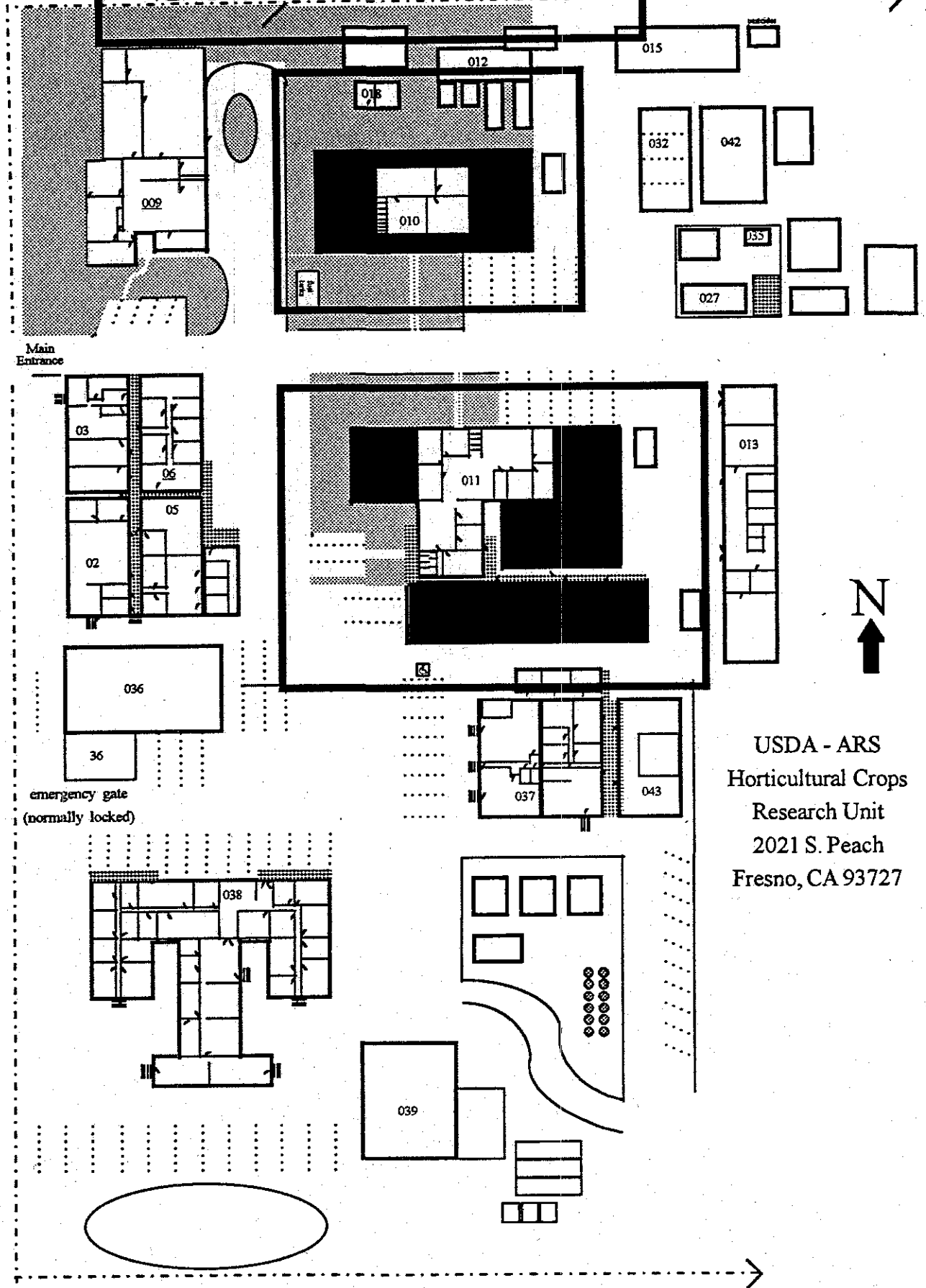
Main Entrance

emergency gate (normally locked)



USDA - ARS
Horticultural Crops
Research Unit
2021 S. Peach
Fresno, CA 93727

Seconds floors



Main Entrance

emergency gate (normally locked)



USDA - ARS
Horticultural Crops
Research Unit
2021 S. Peach
Fresno, CA 93727

Peach Ave.



**HEALTH SERVICES AGENCY
COMMUNITY HEALTH DEPARTMENT
Environmental Health Application**
P.O. Box 11800, Fresno, California 93775
1221 Fulton Mall - ☎ (209) 445-3357

FAD 176 540
PR 0032720
6307
ARLH
7-23-97

PLEASE PRINT OR TYPE

USDA Agricultural

Business Name

Fresno Horticultural Research Center

Inspection Site Address

2021 S. Peach Ave.,
Fresno, CA

Date of Business Commencement

Business Telephone

Billing Address

USDA, ARS
800 Buchanan St.,
Albany, CA 94710

Business Owner

SAME AS BILLING -

Owner Address

↓
Telephone

The Applicant hereby agrees to abide by all applicable Federal, State, and Fresno County statutes, laws, regulations, and the Fresno County Charter Ordinances and to pay all applicable Fresno County Environmental Health Permit and Inspection Fees, and late penalties, if any, which apply to the Permit which is being applied for here. PENALTIES FOR LATE PAYMENT ARE ASSESSED AT 10% PER MONTH OR FRACTION THEREOF. Notify Environmental Health of any change in the type of business activity, name, billing address, or ownership by calling 445-3357. Failure to notify Environmental Health may result in late penalties, Permit denial or revocation, and business closure. PERMITS AND FEES ARE NOT TRANSFERABLE.

Owner / Authorized Representative

Title

Date

— DO NOT WRITE BELOW THIS LINE —

Record ID#	Prog Elem #	Fee/Activity Description	Billing Code	Fee
	<u>6703</u>	<u>Contaminated Site - Non USF</u>		
		<u>Data Entry Only</u>		
Penalty Calculation:			Penalty Due	
			TOTAL AMOUNT DUE	<u>0</u>

RETURN TO: _____ Date Left: _____ ROUTE TO: Business Envision File
 New Business Ownership Change Business Name Change Billing Address Change Other
 Close(inactive) Close(delete) Closure Date _____ Site Correction/Change Activity Change

Comments Lead Agency: RWACB

Business Name ~~Fresno~~ USDA Agricultural Owner USDA

Inspection Site 2021 S Peach Ave Census Tract # 1406 City Code 05

Business ID # 170540 Tank # _____ Permit Code __ Designated Employee ID # 1000

Application Approved By: Richard Patterson Employee ID# 0413 Date 7.23.97

Business Office Use

Envision updated by [Signature] Date 10/7/97
Supervisor Review [Signature] ///

FRESNO COUNTY DEPARTMENT OF HEALTH
 ENVIRONMENTAL HEALTH SYSTEM
 P.O. BOX 11867, FRESNO, CALIFORNIA 93721
 TELEPHONE (209) 445-3271
 PERMIT APPLICATION FOR UNDERGROUND STORAGE TANKS

- ABANDONMENT/REMOVAL NEW CONSTRUCTION SUBSURFACE ASSESSMENT/REMEDIATION
 ABANDONMENT/IN PLACE REPAIR OR REPLACE PRECISION TEST: DATE _____

SITE INFORMATION:

Site Address 2021 S. Peach Ave. City FRESNO Zip _____
 Facility Name USDA, ARS Cross Street _____
 Owner/Operator USDA Phone 453-3005
 Mailing Address SAME City _____ Zip _____

CONTRACTOR INFORMATION:

Company SB & S Drilling
 Address _____
 City FRESNO Phone 227-8288
 Contractor Lic. No./Class CS7-424833

CONSULTANT INFORMATION:

Company EMCON Assoc.
 Address 4233 Sierra Madre St. 109
 City FRESNO Phone 275-4968
 Registration Lic. No./Type _____

TANK CLEANING/TRANSPORTER INFORMATION:

Company _____
 Address N/A
 City _____ Phone _____
 Waste Transporter ID No. _____
 Tank Destination _____
 Rinsate Manifested Tank Manifested

PRECISION TESTER INFORMATION:

Company _____
 Address N/A
 City _____ Phone _____
 Type of Test _____
 Tester Name _____
 CA State Cert. No. _____

TANK INFORMATION

PERMIT #	SIZE	PRODUCT	AGE OF TANK	PREVIOUSLY STORED MATERIAL
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

DESCRIBE WORK TO BE PERFORMED

DRILL & SAMPLE NINE BORINGS TO CHARACTERIZE SOIL CONTAMINATION NEAR FORMER DRY WELLS.

(Use Reverse Side if Necessary)

OFFICIAL USE ONLY

Site I.D. Hazardous Waste Site CT 1401 APN _____ Fee \$ N/A Application Date 9-19-90

NOTE: Permit expires ninety (90) days after the application date. The applicant has received, understands, and will comply with the attached conditions of this permit and any other State and local regulations.

Approved by: [Signature]

Applicant Name (Please Print) Thomas M. Kinney

Applicant Signature/Title [Signature] (Geologist)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

Jan a

November 2, 1998

0513 10 6706

Alvin Humphrey
Area Safety, Health, and Environmental Manager
Agricultural Research Service, Pacific West Area
U.S. Department of Agriculture
800 Buchanan Street
Albany, CA 94710

NOV 04 1998

RE: USDA, ARS
EPA ID No. CA7120090397

Dear Mr. Humphrey:

2021 S. PEACH AVENUE, FRESNO, CA

The re-evaluation of the preliminary assessment for the USDA, ARS site has been completed. The objective of the re-evaluation was to determine if site conditions at the facility pose a significant threat to human health or the environment such that it warrants placement on the National Priorities List.

According to the September 1991 Geotechnical Report prepared for the U.S. Department of Agriculture, dry well #3, the source of the contamination at the site, is no longer used and has been plugged. A release to groundwater has not occurred at the site because the contaminants were detected in low concentrations and have low groundwater mobility, no contaminants were detected at 45 feet below ground surface, and groundwater occurs at 70 feet. In addition, the contamination has not impacted surface soils, air, or surface water at the site.

Based on the available information, we were able to make a decision of no further action warranted at this time. This decision will be entered in the CERCLIS database. You should be aware that if additional information is provided to the agency that affects the no further action decision, this site may be re-evaluated. A copy of our Remedial Site Assessment Decision - EPA Region IX is enclosed.

Should you have any questions pertaining to this matter, please feel free to contact Philip Armstrong of the States, Planning and Assessment Office at (415)744-2349.

Sincerely,

Betsy Curnow

Betsy Curnow, Chief
States, Planning and Assessment Office

RECEIVED

NOV 09 1998

Enclosure

DEPARTMENT OF COMMUNITY HEALTH
ENVIRONMENTAL HEALTH SYSTEM

cc: F. Scott Nevins, CA RWQCB, w/enclosure
Gerry White, CA DTSC, w/enclosure
Jim Armstrong, Fresno County Department of Community Health

REMEDIAL SITE ASSESSMENT DECISION - EPA REGION IX

Site Name: USDA ARS EPA ID #: CA7120090397
Alias Site Names: Fresno Horticultural Field Station
City: Fresno County or Parish: Fresno State: CA
Refer to Report Dated: N/A Report Type: N/A; evaluation is PA re-evaluation
Report developed by: N/A

DECISION:

1. Further Remedial Site Assessment under CERCLA (Superfund) is not required because:
- 1a. Site does not qualify for further remedial site assessment under CERCLA (No Further Action - NFA) and:
- EPA is retaining this site in CERCLIS because the Federal Superfund program still has an interest in the site.
- EPA is archiving this site in CERCLIS because it does not warrant Federal Superfund action, or an appropriate Federal Superfund response action has been completed. This means that EPA believes no further Federal Superfund response is appropriate. Archived sites may be returned to the CERCLIS site inventory if new information necessitating further Federal Superfund consideration is discovered.
- 1b. Site may qualify for further action, but is deferred to: RCRA NRC
2. Further Assessment Needed Under CERCLA 2a.(Optional) Priority: Higher Lower
- 2b. Activity Type: PA SI ESI HRS Evaluation
 Other _____

DISCUSSION/RATIONALE: Dry well #3, the source of the contamination at the site, is no longer used and has been closed. Because no contaminants were found at 45 feet below ground surface, the contaminants that were found at 30, 35, and 40 feet were found in low concentrations and have low groundwater mobility, and groundwater at the site occurs at 70 feet, an observed release to groundwater has not occurred. Surface soils, air, and surface water at the site are not impacted by the contamination at the site.

Report Reviewed,
Approved and Site
Decision Made by:

P. Armstrong

Signature:

Michael Smith

Date:

10/23/98

ERO Concurrence
for Archive Decision
Provided by:

C. Temple

Signature:

Albert Temple

Date:

Fri 12/01/98

GUIDELINES FOR INSPECTION OF PUBLIC RECORDS

All public records of the Fresno County Department of Health, Environmental Health System, which are subject to disclosure under the provisions of the California Public Records Act (Government Code Sections 6250 - 6260), are open to inspection by the public during normal office hours of the office at which those records are located. However, certain records are confidential, and the Department may not release these records to the public. They include all complaint files, inter-office memos, all material in "Confidential" air pollution folders, personnel records, well logs, field notes and preliminary drafts for use by the Department.

Any person who wishes to inspect a public record may present his request to the clerk on duty where the public record is located. A particular record, or if not known, the particular type or class of records, may be requested.

No record may be removed from the office unless subpoenaed. Copies can be made at a charge of 10¢ for each original copy for copies 1 - 8. A charge of .05¢ per copy will be made on copies of 9 or more. The requestor may reproduce a copy by his own means, subject to the limitations that no record is removed from the office and that the record is not damaged by the reproduction equipment.

The Department may temporarily deny or restrict inspection of public records under the following circumstances:

1. Records are at the particular time required by staff or other officials in performing their duties.
2. Supervision of inspection is at that particular moment not possible.
3. Other members of the public are waiting to inspect those records.

REQUEST TO INSPECT PUBLIC RECORDS

Signature _____ Representing _____ Date _____

[Handwritten Signature] *95173* *Krauzer* *6/16/95*

I have read the Department's guidelines and wish to inspect the following public record.

Complete Description:

Fresno Horticulture *MISC*
2021 S. Peach

To be completed by Departmental Office:

Approved Inspected *SHA* Disclosure of requested record is prohibited

Departmental Representative *SHA* Date *6/28/95*

GUIDELINES FOR INSPECTION OF PUBLIC RECORDS

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2. Supervision of inspection is at that particular moment not possible.
3. Other members of the public are waiting to inspect those records.

REQUEST TO INSPECT PUBLIC RECORDS

Signature [Handwritten Signature] Representing Krazon Date 10-12-93

I have read the Department's guidelines and wish to inspect the following public record.

Complete Description:

Fresno Horticulture Research Ctr. MISC
2021 S. Peach
Fresno

To be completed by Departmental Office:

Approved Disclosure of requested record is prohibited
 Inspected

Departmental Representative

Date

Lee Spanna

GUIDELINES FOR INSPECTION PUBLIC RECORDS

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2. Supervision of inspection is at that particular moment not possible.
3. Other members of the public are waiting to inspect those records.

REQUEST TO INSPECT PUBLIC RECORDS

Signature	Representing	Date
<i>Gaurie Jones</i>	<i>Krajan</i>	<i>2/9/93</i>

I have read the Department's guidelines and wish to inspect the following public record.

Complete Description:

*USDA
2021 S. Peach
Fresno*

HWS

To be completed by Departmental Office:	
<input checked="" type="checkbox"/> Approved Inspected <i>CSJ</i>	<input type="checkbox"/> Disclosure of requested record is prohibited _____

Departmental Representative

Date

Osca Hernandez

2-26-93

County of
FRESNO
 Department of Health

POSTING INFORMATION	
BATCH #:	
BATCH DATE:	
TRANSFER TO:	
TRANSFER AMOUNT:	

RECEIPT	PAYMENT DATE			REC'D BY	STAFF NO.
	MO	DA	YR	PP	0103/01
07 24 92					

PAYEE NAME		
Photocopies - E.H.		
LAST NAME	FIRST NAME	MIDDLE NAME

PAYOR NAME			PAID BY	COST CENTER
Paul Awosika			1. MEDICARE 2. MEDI-CAL 3. INSURANCE 4. PRIVATE PAY	57 4610
LAST NAME	FIRST NAME	MIDDLE NAME		

CHECK OR MONEY ORDER NUMBER	AMOUNT RECEIVED	PAYMENT MODE	METHOD RECEIVED
	0109900/50	1. CASH 2. CHECK 3. MONEY ORDER 4. CREDIT CARD	1. U.S. MAIL 2. INTEROFFICE 3. PERSON
		1	3

5 copies
 3 @ 10^d 30
 2 @ 5^d = 20
 .50

Site - 2021 S. Peach (Hes)
 2221 S. Peach (GSA)

RECEIPT NO.
No 49164

GUIDELINES FOR INSPECTION OF PUBLIC RECORDS

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2. Supervision of inspection is at that particular moment not possible.
3. Other members of the public are waiting to inspect those records.

REQUEST TO INSPECT PUBLIC RECORDS	<i>HAZARDOUS WASTE</i>	
Signature	Representing	Date
<i>Amosik Paul</i>	<i>CERTIFIED EARTH METRICS</i>	<i>07/24/92</i>

I have read the Department's guidelines and wish to inspect the following public record.

Complete Description: *FRESNO AGRICULTURAL*
2021 SOUTH PEACH
FRESNO Haz. Waste

To be completed by Departmental Office:	
<input checked="" type="checkbox"/> Approved Inspected <i>[Signature]</i>	<input type="checkbox"/> Disclosure of requested record is prohibited

Departmental Representative	Date
<i>Kathryn Jensen</i>	<i>7-24-92</i>

GUIDELINES FOR INSPECTION OF PUBLIC RECORDS

All public records of the Fresno County Department of Health, Environmental Health System, which are subject to disclosure under the provisions of the California Public Records Act (Government Code Sections 6250 - 6260), are open to inspection by the public during normal office hours of the office at which those records are located. However, certain records are confidential, and the Department may not release these records to the public. They include all complaint files, inter-office memos, all material in "Confidential" air pollution folders, personnel records, well logs, field notes and preliminary drafts for use by the Department.

Any person who wishes to inspect a public record may present his request to the clerk on duty where the public record is located. A particular record, or if not known, the particular type or class of records, may be requested.

No record may be removed from the office unless subpoenaed. Copies can be made at a charge of 10¢ for each original copy for copies 1 - 8. A charge of .05¢ per copy will be made on copies of 9 or more. The requestor may reproduce a copy by his own means, subject to the limitations that no record is removed from the office and that the record is not damaged by the reproduction equipment.

The Department may temporarily deny or restrict inspection of public records under the following circumstances:

- 1. Records are at the particular time required by staff or other officials in performing their duties.
- 2. Supervision of inspection is at that particular moment not possible.
- 3. Other members of the public are waiting to inspect those records.

REQUEST TO INSPECT PUBLIC RECORDS

~~~~~

Signature: *Judy Brewer* Representing: *EMCON Associates* Date: *8/21/91*

I have read the Department's guidelines and wish to inspect the following public record:

Complete Description:

*2021 S. Peach, Fresno, CA. - FRESNO HORTICULTURAL RESEARCH CENTER (HAZ. WASTE)*

~~~~~  
To be completed by Departmental Office:

Approved
 Inspected *CB*

Disclosure of requested record is prohibited _____

Departmental Representative

Christopher Braun

Date

8/28/91

GUIDELINES FOR INSPECTION OF PUBLIC RECORDS

All public records of the Fresno County Department of Health, Environmental Health System, which are subject to disclosure under the provisions of the California Public Records Act (Government Code Sections 6250 - 6260), are open to inspection by the public during normal office hours of the office at which those records are located. However, certain records are confidential, and the Department may not release these records to the public. They include all complaint files, inter-office memos, all material in "Confidential" air pollution folders, personnel records, well logs, field notes and preliminary drafts for use by the Department.

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3. Other members of the public are waiting to inspect those records.

REQUEST TO INSPECT PUBLIC RECORDS

Signature	Representing	Date
<i>Laurie Jones</i>	<i>Kroger</i>	<i>6/21/91</i>

I have read the Department's guidelines and wish to inspect the following public record.

Complete Description:

*USDA/Fresno Horticultural Research Center
2021/2221 South Peach Avenue
Fresno*

UGST

To be completed by Departmental Office:	
<input checked="" type="checkbox"/> Approved Inspected <i>CB</i>	<input type="checkbox"/> Disclosure of requested record is prohibited

Departmental Representative

Chris Brown

Date

7/2/91

GUIDELINES FOR INSPECTION OF PUBLIC RECORDS

All public records of the Fresno County Department of Health, Environmental Health System, which are subject to disclosure under the provisions of the California Public Records Act (Government Code Sections 6250 - 6260), are open to inspection by the public during normal office hours of the office at which those records are located. However, certain records are confidential, and the Department may not release these records to the public. They include all complaint files, inter-office memos, all material in "Confidential" air pollution folders, personnel records, well logs, field notes and preliminary drafts for use by the Department.

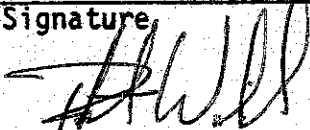
Any person who wishes to inspect a public record may present his request to the clerk on duty where the public record is located. A particular record, or if not known, the particular type or class of records, may be requested.

No record may be removed from the office unless subpoenaed. Copies can be made at a charge of 10¢ for each original copy for copies 1 - 8. A charge of .05¢ per copy will be made on copies of 9 or more. The requestor may reproduce a copy by his own means, subject to the limitations that no record is removed from the office and that the record is not damaged by the reproduction equipment.

The Department may temporarily deny or restrict inspection of public records under the following circumstances:

1. Records are at the particular time required by staff or other officials in performing their duties.
2. Supervision of inspection is at that particular moment not possible.
3. Other members of the public are waiting to inspect those records.

REQUEST TO INSPECT PUBLIC RECORDS

Signature 	Representing EMCON ASSOCIATES	Date 10/26/90
--	----------------------------------	------------------

I have read the Department's guidelines and wish to inspect the following public record.

Complete Description: HAZARDOUS WASTE SITE FILE
FRESNO HORTICULTURAL RESEARCH CTR.
2021 S. PEACH, FRESNO

To be completed by Departmental Office:	
<input type="checkbox"/> Approved <input type="checkbox"/> Inspected _____	<input type="checkbox"/> Disclosure of requested record is prohibited _____

Departmental Representative	Date
-----------------------------	------

GUIDELINES FOR INSPECTION OF PUBLIC RECORDS

All public records of the Fresno County Department of Health, Environmental Health System, which are subject to disclosure under the provisions of the California Public Records Act (Government Code Sections 6250 - 6260), are open to inspection by the public during normal office hours of the office at which those records are located. However, certain records are confidential, and the Department may not release these records to the public. They include all complaint files, inter-office memos, all material in "Confidential" air pollution folders, personnel records, well logs, field notes and preliminary drafts for use by the Department.

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2. Supervision of inspection is at that particular moment not possible.
3. Other members of the public are waiting to inspect those records.

REQUEST TO INSPECT PUBLIC RECORDS

Signature	Representing	Date
<i>Arinda Blumenthal</i>	EMA	10/25/90

I have read the Department's guidelines and wish to inspect the following public record.

Complete Description: *Fresno Horticultural Research Center
2021 S. Peach*

To be completed by Departmental Office:	
<input checked="" type="checkbox"/> Approved Inspected <i>STR</i>	<input type="checkbox"/> Disclosure of requested record is prohibited

Departmental Representative	Date
<i>Art J. Rusk</i>	10/26/90



Human Services System
 Department of Community Health
 Gary M. Carozza, Director

Adult Services Department
 Children & Family Services Department
 Employment & Temporary Assistance Department

Guidelines for Inspection of Public Records

All public records of the Fresno County Human Services System, Department of Community Health, Environmental Health System, which are subject to disclosure under the provisions of the California Public Records Act (Government Code Sections 6250 - 6260), are open to inspection by the public during normal office hours of the office at which those records are located. However, certain records are confidential, and the Department may not release these records to the public.

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No record may be removed from the office unless subpoenaed. Copies can be made at a charge of ten cents (10¢) for each original copy for copies 1 - 8. A charge of five cents (5¢) per copy will be made on copies of 9 or more. The requestor may reproduce a copy by his own means, subject to the limitations that no record is removed from the office and that the record is not damaged by the reproduction equipment.

The Department may temporarily deny or restrict inspection of public records under the following circumstances:

1. Records are at the particular time required by staff or other officials in the performance of their duties; or
2. Supervision of inspection is at that particular moment not possible; or
3. Other members of the public are waiting to inspect those records.

Request to Inspect Public Records

I have read the Department's guidelines and wish to inspect the following record:

Name (print): Jason Olson Phone Number: 707-585-2400
 Signature: [Signature]
 Representing: Vertex Engineering
 File Name: USDA Agricultural Rese
 File Address: 2021 Peach, Fresno CA
 Type of File: UST

▶▶▶ Do Not Write Below This Line - Department Use Only ◀◀◀

Request Approved: _____ Request Temporarily Denied or Restricted: _____ Request Denied File Confidential: _____

Analyst: _____ Title: _____ Date: _____

FRESNO COUNTY DEPARTMENT OF HEALTH

Hazardous Materials/Underground Storage Tanks

Telephone Call Record

USDA Horticultural Field Station

(Facility Name/ERT Incident #)

2021 S. Peach Ave., Fresno California

(Facility Address)

Herman Schymiczek, EMCON

(Person Called)

275-4968

(Phone #)

8-23-90

(Date)

8:15 a.m.

(Time)

Summary of Discussion

Telephoned Herman Schymiczek to explain that FCDH cannot "approve" the workplan dated August 21, 1990. The site at 2021 S. Peach is under the direction of the California RWQICB and they must give approval of the scope of work. FCDH is involved to issue permits for soil borings, but only after RWQICB approval of the scope of work is documented.

Jeri Amstutz

(Analyst Name)

Geologist

- UGST File HazMat File Haz Waste File ERT Report File

FRESNO COUNTY DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH SYSTEM
 P.O. Box 11867, Fresno, California 93721
 Telephone: 445-3350

PERMIT TO CONSTRUCT, REPAIR, RECONSTRUCT, OR DESTROY A WATER WELL OR PUMP INSTALLATION

Application Date: 9-19-90 Boring No. B-1 through B-9
9-25-90 T 145 R 21E S 8
9-28-90 APN _____
 Starting Date _____ Completion Date _____
 JOB ADDRESS/LOCATION: 2021 S. PEACH AVE., FRESNO
 Owner's Name: USDA, ARS Phone: 453-3005
 Address: 2021 S. PEACH AVE., FRESNO City: FRESNO
 Contractor's Name: SB&S Drilling License No. C57-424833 Phone: 227-8288

TYPE OF WORK (Check): NEW WELL RECONSTRUCTION DESTRUCTION REPAIR PUMP OTHER BORING

DISTANCE TO: SEPTIC TANK _____ SEWER LINES _____ PIT PRIVY _____ SUBSURFACE SEWAGE LEACHING FIELD _____
 NEAREST: CESSPOOL/SEEPAGE PIT _____ OTHER DRY WELLS 25 FEET

INTENDED USE	TYPE OF WELL	CONSTRUCTION SPECIFICATIONS
Industrial _____	Cable Tool _____	Diameter of Well Casing <u>N/A</u>
Domestic/Private _____	Drilled _____	Gauge of Casing _____
Domestic/Public _____	Gravel Pack _____	Casing Depth _____
Agricultural _____	Rotary _____	Annular-Seal-Depth _____
Cathodic _____	Hardrock _____	Type of Material Used for Annular Seal <u>CEMENT W/5% Bent.</u>
<input checked="" type="checkbox"/> Other <u>ENVIRON. SPLG.</u>	<input checked="" type="checkbox"/> Other <u>HSA</u>	Other Information _____

NEW WELL-PUMP: Contractor _____
 INSTALLATION: Type of Pump N/A Horsepower _____

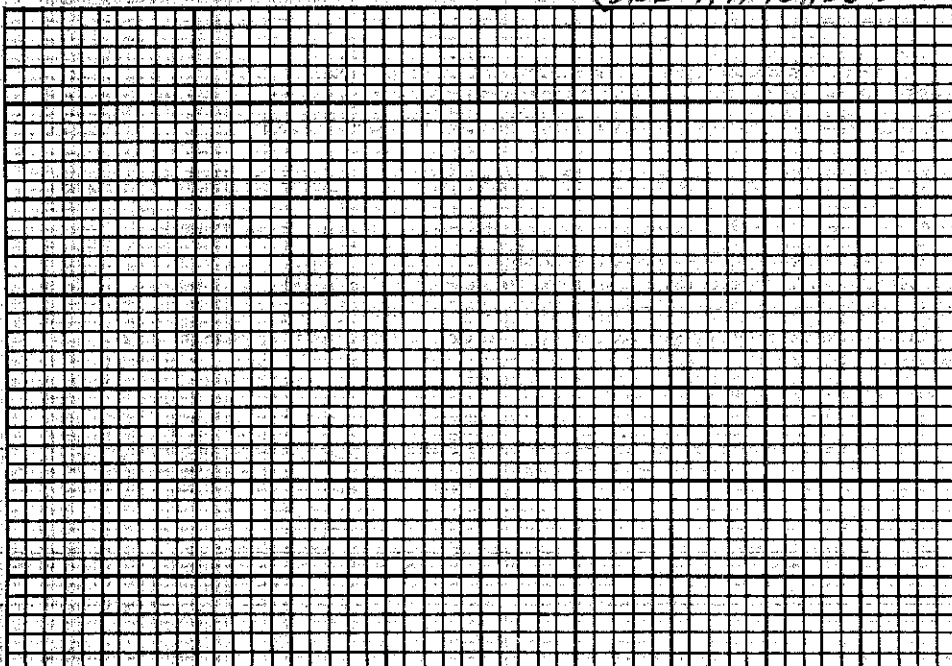
DESTRUCTION OF WELL: Well Diameter _____ Approximate Depth _____ Penetrates Corcoran Clay _____
 Describe Material and Procedure N/A

I hereby state the information above is correct. I understand that a permit must be obtained before any work is started and that various inspections will be required before the work can be finalized.

I understand approval of the Water Well Permit does not indicate whether this property is suitable for an individual sewage disposal system, or that a permit to install such system will be granted.

Signed: Tom Kinney for EMCON Associates Title Geologist

DRAW PLOT PLAN (SEE ATTACHED MAP)



FOR OFFICE USE ONLY

Permit _____
 Approved [Signature]
 Date 9/19/90

WELL INSPECTIONS

Final _____
 (Initial) _____ (Date) _____

PUMP INSTALLATION INSPECTION

_____ (Initial) _____ (Date) _____

cc: Building & Safety

- 1. White -- File Copy
- 2. Canary -- Field Copy
- 3. Pink -- Applicant's Copy

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—
CENTRAL VALLEY REGION

SAN JOAQUIN WATERSHED BRANCH OFFICE:
3614 EAST ASHLAN AVENUE
FRESNO, CA 93726
PHONE: (209) 445-5116



6 September 1990

RECEIVED
SEP 10 1990

Mr. Alvin Humphrey, ASHM
Area Safety and Health Manager, PWA
USDA, ARS
800 Buchanan Street
Albany, CA 94710

ENVIRONMENTAL HEALTH SYSTEM
FRESNO COUNTY DEPT. OF HEALTH

USDA HORTICULTURAL FIELD STATION, FRESNO, FRESNO COUNTY

We have evaluated the 11 July 1990 work plan to conduct a geotechnical investigation at the United States Department of Agriculture's (USDA's) Horticultural Field Station at 2021 South Peach Avenue, Fresno, California. Enclosed is a memorandum with our comments and recommendations.

The memorandum indicates the approach proposed for the geotechnical investigation is reasonable. Please note that the proposed test borings should be placed as close as possible to the dry wells (within 1 to 2 feet).

The memorandum also indicates that, although the work that is proposed for Phase II of the investigation is appropriate, additional borings may be required to determine the lateral and vertical extent of soil contamination before the installation of monitoring wells. Besides the three proposed ground water monitoring wells, additional wells may also be needed to define the lateral and vertical extent of ground water degradation near each dry well.

Should you have any questions concerning this matter, please telephone Roberta Howe of this office at (209) 488-4393.

A handwritten signature in black ink, appearing to read "F. Scott Nevins".

F. Scott Nevins
Senior Engineer

RCH:rch/fmc

Enclosure

cc: Department of Environmental Health Services, Fresno
Mr. Jim Armstrong, Fresno County Environmental Health Department, Fresno

II. SCOPE OF WORK

A. Geotechnical Investigation

The work plan indicates that Phase I of the geotechnical investigation will assess the nature and extent of any contamination in the vadose zone beneath and adjacent to the dry wells. Phase II will be conducted only if contamination levels encountered during Phase I warrant further investigation. The lateral and vertical extent of contamination in the soil and ground water beneath the site will be evaluated in Phase II.

1. Phase I

EMCON proposes to drill and sample one soil boring adjacent to (within 5 feet, and, if possible, within 1-2 feet) each of the eight dry wells and 1 soil boring for background sampling. The borings will be terminated 45 feet below grade, which is approximately 15 feet above the water table.

The borings will be drilled with 8-inch diameter, hollow-stem auger drilling equipment. Soil samples will be collected at a minimum of 5-foot intervals, using a modified California split-spoon sampler. These samples, along with auger return materials, will be logged by an EMCON geologist under the direct supervision of a California registered geologist, using the Unified Soil Classification System.

According to the work plan, soil samples to be analyzed for chemical constituents will be collected at 30, 35, 40, and 45-foot depths from each of the borings. These sampling depths were selected because the dry wells are reportedly 30 feet deep, and the maximum depth of the boreholes is anticipated to be 45 feet.

Background soil samples will be collected at the same depths as those collected near the dry wells.

The work plan states that the samples for chemical analysis will be collected in clean stainless steel rings, sealed with Teflon^R tape and polypropylene end caps, placed in a cooler with frozen gel packs, and transported to the analytical laboratory with appropriate chain-of-custody documentation.

The samples will be analyzed for DBCP (DHS Method), halogenated volatile organics (EPA Method 8010, including freon), aromatic volatile organics (EPA Method 8020), semi-volatile organic compounds (EPA Method 8270), organochlorine pesticides (EPA Method 8080), inorganics (EPA Methods 6010/7060/7470/7740), nitrates (EPA Method 9200), temperature, pH, and specific conductance.

According to the work plan, the borings will be backfilled with a cement grout containing 5% bentonite upon completion of the drilling.

The auger return soils will be placed in 55-gallon drums and temporarily stored on-site. A separate drum will be used for each boring, and if hazardous concentrations are found in soils collected from the borings, soils in those drums which correspond to the borings penetrating soils with hazardous concentrations will be sampled and analyzed for the constituents that were found at hazardous levels. Drums containing hazardous soils will be disposed of at a Class I disposal site; nonhazardous soils will be disposed of at the Fresno Horticultural Field Station.

Discussion:

I indicated in a telephone conversation, on 18 April 1990 with Mr. Alvin Humphrey of the USDA, that the test borings should be placed as close as possible to the dry wells, and the soils directly below the dry wells should be sampled.

Sampling of the soils directly beneath the dry wells could be accomplished by boring through the bottom of the dry well, if possible, or by angle boring. The drilling and sampling of soils from borings adjacent to the dry wells is also acceptable, provided the borings are within 1 to 2 feet of the dry wells.

In a telephone conversation on 23 August 1990, Mr. Tom Kinney of EMCON indicated that angle boring would be needed at one of the dry wells to characterize the soils beneath the dry well.

The work proposed for Phase I appears to be adequate.

2. Phase II

If contamination levels encountered during Phase I warrant continued investigation, EMCON proposes to install a total of three monitoring wells at locations strategically placed to assess the lateral extent of ground water degradation (one upgradient and two downgradient). Monitoring well locations will be based on regional hydrogeologic information and the results of the Phase I investigation, according to the work plan.

The borings to be used for monitoring well installation will be drilled by the same methods used during Phase I. Drilling equipment will be steam-cleaned prior to the drilling of each boring. The well casings will consist of 2-inch diameter, flush-threaded schedule 40 PVC and 0.020-inch slotted well screen. The work plan indicates that

20 feet of well screen will be installed approximately 15 feet into first-encountered ground water; if the encountered water-bearing zone is less than 20-feet thick, the well screen will only be installed to the base of the saturated zone. Use of a 20-foot well screen is proposed to allow for variation in the water levels and to ensure that the well will provide enough water for efficient sampling. The rationale provided in the work plan for screening a 5-foot section above the first encountered water is that semi-confined conditions are typical for this part of the San Joaquin Valley, and it is common for the water level to stabilize 2 to 3 feet above the encountered water after well stabilization.

According to the work plan, an appropriately-sized sand pack will be placed in the annular space around the well screen. The sand pack will be placed through the hollow-stem augers from the bottom of the boring to a few feet above the top of the screens. Approximately 2 feet of bentonite pellets will be placed on top of the sand pack to prevent infiltration of the cement grout. A grout seal containing approximately 5% bentonite will be pumped into the annular space through a tremmie pipe from the bentonite seal to the surface. Each well will be completed at the surface with a concrete pad and a locking metal surface casing. Drilling and well construction activities will be supervised by an EMCON geologist working under the direction of a California state-registered geologist.

Soil samples will be collected from the borings drilled for monitoring well installation at depths of 30, 40, 50, and 60 feet. The handling and analysis of the soil samples will be comparable to the methods used in Phase I. The auger return materials will also be treated as in Phase I.

Development and sampling water will be contained on site, in properly-labeled drums, until receipt of ground-water analyses. If the analyses indicate the water contains chemical contaminants, an appropriate disposal method will be used, based on the concentrations present.

Ground water will be collected monthly and analyzed from all three wells for two months (2 samples). The analysis of the ground water samples will include the same constituents as the soils analyses.

Discussion:

The work plan states that the lateral and vertical extent of contamination in the soil and ground water beneath the site will be evaluated in Phase II.

Although the work that is proposed is appropriate, additional borings may be needed to determine the lateral and vertical extent of soil contamination before the installation of monitoring wells. These borings may need to be installed to depths greater than 45 feet.

Proposed ground water monitoring wells, wells may also be to define the lateral and vertical extent of ground water degradation near each dry well.

B. Laboratory Analysis and QA/QC

The chemical analyses will be performed by EMCON's Subsidiary, Columbia Analytical Services, except for the DBCP analyses, which will be performed by International Technology Corporation's Santa Clara laboratory. Each laboratory is California-certified by the Department of Health Services (DHS) for the methods to be performed by that laboratory.

The field quality assurance measures that have been proposed include: documentation of field instrument calibration, and collection and analysis of trip blanks, equipment blanks, and duplicate samples.

Method blanks, surrogate spike recoveries (for organic compounds only), matrix spike recoveries, and matrix spike duplicates will be used to assure that adequate and appropriate quality control is exercised in the laboratory.

The proposed QA/QC procedures and the analytical laboratories that were selected are satisfactory.

C. Schedule

A schedule for the proposed work is included in the work plan. The total time estimated for completion of the investigation (including Phase II) is 7 months.

The project schedule is reasonable. However, additional time may be required, depending on how extensive the work is to accomplish Phase II of the investigation.

SUMMARY AND RECOMMENDATIONS:

After reviewing the work plan for the USDA Fresno Horticultural Field Station site, I have developed the following summary and recommendations:

1. In general, the approach proposed for the geotechnical investigation is reasonable. The test borings should be placed as close as possible to the dry wells (within 1 to 2 feet).

USDA HORTICULTURAL FIELD
STATION, FRESNO, FRESNO
COUNTY

-6-

6 September 1990

2. Although the work that is proposed for Phase II of the investigation is appropriate, additional borings may be needed to determine the lateral and vertical extent of soil contamination before the installation of monitoring wells. Besides the three proposed ground water monitoring wells, additional wells may also be required to define the lateral and vertical extent of ground water degradation near each dry well.

RCH:rch/fmc



Date August 28, 1990
Project E09-01.01

To:

Mr. Jim Armstrong
Fresno County Environmental Health Services
1221 Fulton Mall
P.O. Box 11867
Fresno, CA 93775

RECEIVED
AUG 29 1990

**ENVIRONMENTAL HEALTH SYSTEM
FRESNO COUNTY DEPT. OF HEALTH**

We are enclosing:

Copies	Description
<u>-1-</u>	<u>Tables to attach to Work Plan for environmental sampling at</u> <u>the USDA, ARS, Horticultural Field Station</u> <u>Fresno, California</u>

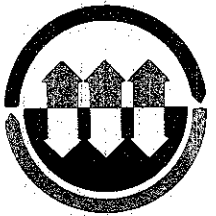
For your:	<u>XXX</u> Use	Sent by:	<u>XXX</u> Regular Mail
	<u> </u> Approval		<u> </u> Standard Air
	<u> </u> Review		<u> </u> Courier
	<u> </u> Information		<u> </u> Other <u> </u>

Comments: If you have any questions, please call EMCON at (209) 275-4968.

cc:

Thomas M. Kinney
Thomas M. Kinney
Project Geologist

TMK:clr



emcon
ASSOCIATES

Consultants in Wastes
Management and
Environmental Control

RECEIVED
AUG 22 1990

ENVIRONMENTAL HEALTH SYSTEM
FRESNO COUNTY DEPT. OF HEALTH

August 21, 1990
Project E09-01.01

Mr. Jim Armstrong
Fresno County Environmental Health Services
1221 Fulton Mall
P.O. Box 11867
Fresno, CA 93775

Re: Work Plan for Environmental Sampling

Dear Mr. Armstrong:

EMCON Associates is planning to drill 9 borings and collect soil samples at the USDA, ARS, Horticultural Field Station in Fresno, California. This work plan describes in detail the investigation methods to be performed.

We are planning to drill the wells the second week of September, so a timely response would be greatly appreciated.

If you have any questions or comments, please contact EMCON at (209) 275-4968.

Very truly yours,

EMCON Associates

Thomas M. Kinney
Thomas M. Kinney
Project Geologist

Herman B. Schymiczek
Herman B. Schymiczek
Branch Manager

TMK\HBS:clr

1.0 INTRODUCTION

EMCON Associates (EMCON) is pleased to submit this work plan to conduct a geotechnical investigation of potential soil and ground-water contamination at the United State Department of Agricultural (USDA), Fresno Horticultural Field Station (FHFS), 2021 South Peach Avenue, in Fresno, California.

The Central Valley Regional Water Quality Control Board (RWQCB) became interested in the FHFS due to suspected contribution to the deterioration of ground-water quality in the Fresno area. The widespread use of the soil fumigant dibromochloropropane (DBCP) is the main regional contaminant in the Fresno area ground water and is a problem in the areas adjacent to the FHFS site. The FHFS has not used DBCP according to the site personnel. However, other pesticides and fungicides have been used at the facility. Eight abandoned drywells are located at the site and were used to dispose of sanitary and other waste waters until 1985 when the site was connected to the municipal sewer system. Preliminary information indicates that the drywells were not used to dispose of pesticides or fungicides. The drywells are nonetheless the area of greatest concern to the RWQCB and the USDA.

2.0 SCOPE OF WORK

2.1 Task 1 Review and Analysis of Existing Information

EMCON will review and analyze readily available information which pertains to past and present practices and environmental concerns at the site. Information will be obtained from the USDA from readily available records under the supervision of EMCON employees. EMCON will interview past and present employees of the site so as to ascertain past site activities and use of the dry wells. Additional data will be obtained from the RWQCB, the California Department of Health Services (DHS), the California Department of Water Resources (DWR), the United States Geological Survey (USGS), the U.S. Soil Conservation Service, Fresno County Health Department Files, and other pertinent readily available data. This information will include environmental investigations performed at the site, available historical ground-water data, drillers logs/well details from site water wells, any available chemical analyses of on-site and nearby water wells along with any other pertinent readily available information. The data obtained may prove to be beneficial to the geotechnical investigation and will be presented in the Preliminary Assessment (PA) report. Verbal briefing will be made to the USDA if any pertinent information is obtained.

2.2 Task 2 Conduct a Geotechnical Investigation

The geotechnical investigation will be conducted in accordance with the RWQCB guidelines pursuant to the California Porter-Cologne Water Quality Act and will be carried out in two phases. Phase I will assess the nature and extent of any contamination in the vadose zone adjacent to the drywells to a depth of 45 feet. If contamination levels encountered during Phase I warrant further investigation, an additional phase (Phase II) will be conducted to evaluate the lateral and vertical extent of contamination in the soil and ground water beneath the site.

2.2.1 Phase I

EMCON proposes to drill and sample eight soil borings (B-1 through B-8) adjacent to the drywells and one soil boring (B-9) as a background sample location (Figure 1). Permits for drilling all borings and installation of wells will be obtained from the Fresno County Department of Health, Environmental Health Services. The borings will be terminated at 45 feet below grade which is approximately 15 feet above the water table according to the DWR Fall, 1988 Lines of Equal Elevation for the San Joaquin Valley and the U.S. Bureau of Reclamations Fall 1989 map. Within the Fresno City limits, soil contamination must be documented within 15 feet of the water table before the installation of ground-water monitoring wells will be permitted. The borings will be drilled within 5 feet (1 to 2 feet if possible) of the similarly numbered adjacent drywells. Boring B-5 will be slightly greater than five feet but as near as possible to Drywell #5 due to the location of a laboratory trailer stationed directly over the drywell. It may be necessary to angle drill in order to collect significant samples near Drywell #5. A locating service will determine the location of underground utilities and assist in finding the drywells. Drywells commonly have a metal ladder welded to the side of the well. During the site visit it was suggested that the drywells were abandoned with steel caps. Therefore, a metal detector will be used in an attempt to locate the wells. A 1/2 inch diameter steel probe will be used to verify the location of the drywells. If no metal is detected the probe will be used to attempt to find the well based on information provided by the USDA. The borings will be drilled with eight-inch diameter hollow-stem auger drilling equipment. This method was chosen because it is: 1) the most effective way to collect soil samples for chemical analysis; 2) the most environmentally sound method of drilling as no fluids are used; and 3) the most cost effective. Soil samples will be collected at a minimum of five-foot intervals using a modified California split-spoon sampler with stainless steel rings. These samples, along with auger return materials will be carefully logged by an EMCON geologist under the direct supervision of a California registered geologist, using the Unified Soil Classification System. Soil samples for chemical testing will be collected at 30, 35, 40, and 45 feet in each of the borings. These sampling depths were chosen as 30 feet is the depth of the dry well and 45 feet is the anticipated maximum depth of the boreholes. The five foot sampling interval should provide the necessary data to evaluate the vertical concentration profile.

Upon completion of drilling, the borings will be backfilled with a cement grout containing five percent bentonite. The grout will be placed by pumping through a tremmie pipe and

filling the boring from the bottom to the ground surface. The auger return materials (soils) will be placed in properly labeled 55 gallon drums and temporarily stored on site. A separate drum will be used for each of the borings. If contaminated soils are indicated from laboratory results, those drums which correspond to borings penetrating contaminated soils will be sampled and analyzed for constituent(s) which were found at hazardous concentrations. Drums containing hazardous materials must be disposed of as a hazardous waste by a licensed hazardous waste hauler and will be manifested. The soil and drums will be considered USDA property and will be transported and disposed of at a Class I disposal site under EPA generator numbers provided by the USDA. If the soil is not hazardous, it will be disposed of at the Fresno Horticultural Field Station. By plotting soil types and contaminant concentrations in profile, risk assessment will be performed using methods described in DHS (1986) and Marshack (1986).

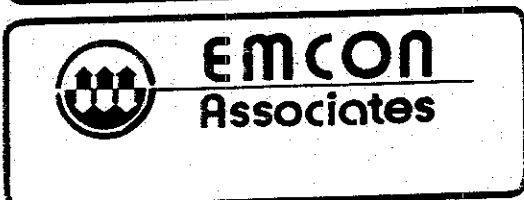
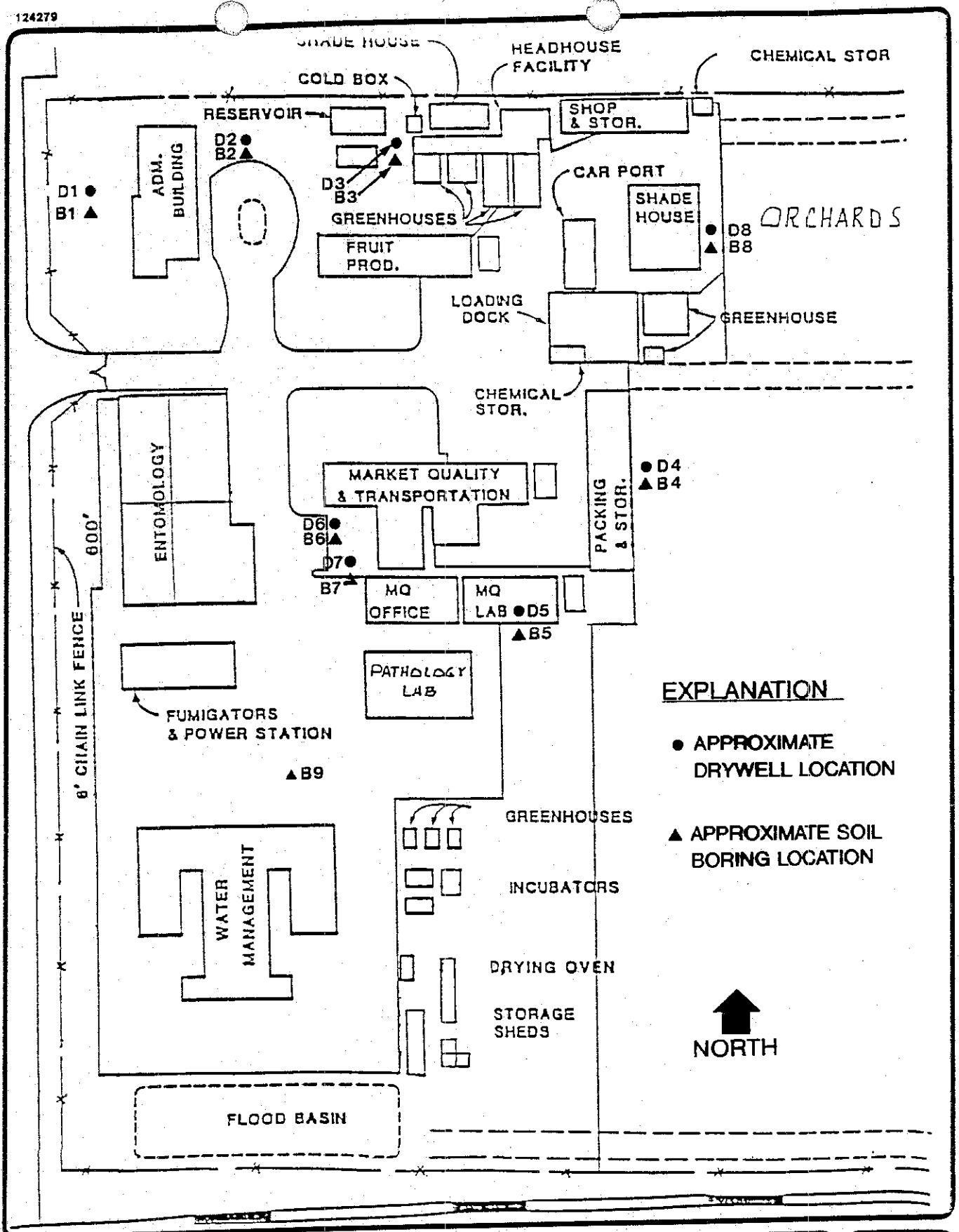
To evaluate if site activities have impacted soils it is essential to characterize background soil chemistry. Background soil samples will be collected from Boring B-9 at an accessible on-site location at a sufficient distance to insure that it has not been impacted by fluids that have entered the drywells (Figure 1). The location will also be assessed so as to minimize the potential for impacted soils by other past activities. Background soil samples will be collected at identical depths by sampling techniques identical to those performed for the other borings (B-1 through B-8).

Comparison of laboratory results from the background soil samples with samples collected adjacent to the drywells will allow for the assessment of impact to soils from fluids that have entered the drywells. Analytical data will be evaluated for any parameter concentration trends that exist vertically in the vicinity of the drywells. Should impacted soils be encountered, this evaluation will take into account the composition of soils and contaminant concentration trends for the purpose of assessing potential impact to ground water.

Soil samples for chemical analysis will be collected in clean stainless steel rings sealed with Teflon® tape and polypropylene end caps, placed in a cooler chest packed with frozen gel packs, and transported to the analytical laboratory with the appropriate chain-of-custody documentation. Two duplicate samples will be chosen for QA/QC purposes and analyzed by identical methods as described below. The samples will be analyzed for DBCP (DHS Method), volatiles (EPA Method 8010/8020, including BETX and freon),

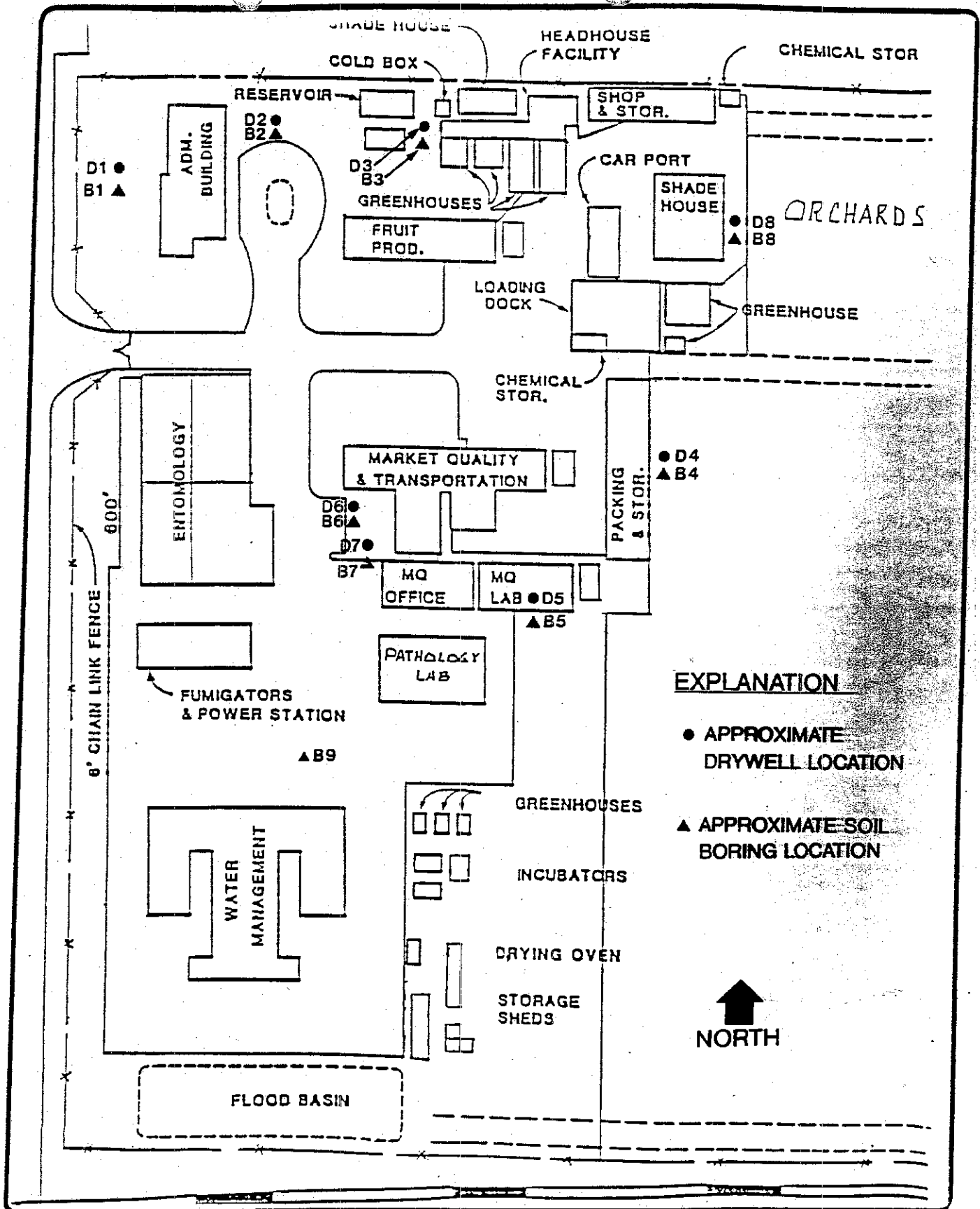
semi-volatiles (EPA Method 8270), pesticides (EPA Method 8080), inorganics 200 series (EPA Methods 6010/7060/7470/7740), nitrates (EPA Method 9200), temperature (Method 2550B), temperature adjusted pH (EPA Method 150.1), and specific conductance (EPA Method 120.1). The analyses will be performed by EMCON's wholly-owned state-certified laboratory, Columbia Analytical Services (CAS) except the DBCP analyses which will be analyzed at International Technology Corporation's (IT) Santa Clara laboratory. Table 1 summarizes the analytical parameters and methods for analysis; Table 2 lists the number of samples and analyses to be performed.

After assessing the data from Phase I, EMCON will meet with the USDA and/or the RWQCB to determine if a second phase will be required. The approach to Phase II, if necessary, will be finalized at the meeting.



U.S.D.A..A.R.S.
FRESNO HORTICULTURAL FIELD STATION
BORING LOCATION MAP

FIGURE
1
PROJECT NO.
EO9-01.01



EMCON
Associates

U.S.D.A., A.R.S.

FRESNO HORTICULTURAL FIELD STATION

2021 S. Peach Ave., Fresno, CA

BORING LOCATION MAP

FIGURE

1

PROJECT NO.
EO9-01.01

TABLE 1
ANALYTICAL PARAMETERS AND METHODS OF ANALYSIS

Analytical Parameters	Method	Reference
DBCP	504/DHS	1
Volatiles	8010.8020 (including analysis for BETX and freon)	2
Semivolatiles	8270	3
Pesticides	8080	2
Inorganics ⁴	200 Series (6010/7060/7470/7740)	1
Nitrates	9200	1
Temperature	2550B	5
pH	150.1	1
Specific Conductance	120.1	1

1. *Methods for Chemical Analysis of Water and Wastes*, EPA-600/4/79/020. Revised March 1983
2. *Test Methods for Evaluating Solid Waste. Physical/Chemical Methods*, EPA SW-846, November 1986.
3. *Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater*, EPA-600/4-82-057, July 1982.
4. Metals

Aluminum	Boron	Copper	Mercury	Silver
Antimony	Cadmium	Iron	Molybdenum	Sodium
Arsenic	Calcium	Lead	Nickel	Thallium
Barium	Chromium	Magnesium	Potassium	Tin
Beryllium	Cobalt	Manganese	Selenium	Vanadium
				Zinc
5. *Standard Methods for the Examination of Water and Wastewater*, APHA/AWWA/WPCF, 17th Edition, 1989.

TABLE 2 SOIL SAMPLE ANALYSIS

<u>Analysis</u>	<u>Round 1¹</u> <u>Quantity</u>	<u>Round 2²</u> <u>Quantity</u>
DHS Method DBCP	38	13
EPA 8010/8020 ³	38	13
EPA 8080	38	13
EPA 6010	38	13
EPA 9200	38	13
EPA 8270	38	13
Temperature	38	13
Specific Conductance	38	13
pH	38	13

1. Includes 9 borings sampled at 30, 35, 40, and 45 feet, plus 2 duplicate samples.
2. Includes 3 wells sampled at 30, 40, 50, and 60 feet, plus 1 duplicate sample.
3. Includes BETX and freon.

Note: This tables includes the addition of USDA adjustments to the original proposal as follows:

Phase I - 3 background samples and 2 duplicate samples
Phase II - 1 duplicate sample



United States
Department of
Agriculture
Administrative Office

Agricultural
Research
Service

Pacific West Area

2021 S. Peach Avenue
Fresno, Ca 93727

RECEIVED

AUG 31 1989

August 29, 1989

SUBJECT: Meeting with California Regional Water Quality Control Board
August 16, 1989

ENVIRONMENTAL HEALTH SYSTEM
FRESNO COUNTY DEPT. OF HEALTH

TO: Participants

FROM: Sharon Guthrie, Location Administrative Officer *Sharon Guthrie*

A meeting was held at 10:30 AM, August 16, 1989, to discuss the dry wells at the Fresno Agricultural Research Service location.

Those in attendance were:

Roberta Howe, Water Quality Control Board
Tim Casagrande, Fresno County Health Department
Alvin Humphrey, Area Health and Safety Manager, Albany, California
Claude Phene, Research Leader, ARS, Fresno, California
Sharon Guthrie, Administrative Officer, ARS, Fresno, California

There was a discussion on what has been done and still needs to be done for closure of the dry wells at the Fresno location.

Ms. Howe gave participants an "Outline for Report on Geotechnical Investigation."

There was a discussion on the preliminary report ARS has received from the Idaho National Engineering Laboratory. Ms. Howe explained that sampling and analyses must be part of our action in developing a closure plan. The sampling must be done by someone certified by the State of California and analyses must be performed by laboratories certified by the State of California for each contaminant for which analysis is being done.

It was agreed that Alvin Humphrey and Sharon Guthrie would present the concerns and requirements expressed at this meeting to higher authorities within the ARS with recommendations for expediting closure procedures.

cc: Chester Reder, Area Administrative Officer



United States
Department of
Agriculture

Agricultural
Research
Service

RECEIVED
AUG 10 1989

800 Buchanan Street
Albany, California
94710

*Should
Attend
this?*

Clint Jones

Michael Robinson

GAK

August 3, 1989

Ms. Roberta Howe
California Regional Water Quality Control Board
Central Valley Region/San Joaquin Watershed Branch Office
3614 East Ashland Avenue
Fresno, CA 93726

RECEIVED
AUG 9 1989

ENVIRONMENTAL HEALTH SYSTEM
FRESNO COUNTY DEPT. OF HEALTH

Dear Ms. Howe:

This letter is to confirm our telephone conversation of August 2, 1989. The meeting to discuss the Fresno Horticultural Research Facility past disposal of laboratory wastes down drywells is scheduled for the morning of Aug. 16, at 10:30 a.m., 3614 East Ashland Ave., Fresno, CA.

If any problems arise resulting in anyone not being able to attend, please let me know as soon as possible. My phone number is 415/559-6004.

Sincerely,

Alvin Humphrey
ASHM, PWA

cc:

- C. Reder, AAO, PWA
- T. Roark, CSHP, GSD, Hyattsville
- G. Sundstrom, SS, GSD, Hyattsville
- C. Phene, RL, Fresno
- S. Guthrie, LOA, Fresno
- G. White, Department of Health Services
- L. Dooley, Fresno County Health Department
- C. Penly, EPA, Region 9



United States
Department of
Agriculture

Agricultural
Research
Service

Pacific West Area

RECEIVED

AUG - 8 1989

800 Buchanan Street
Albany, California
94710

*Clint Jones
Please acknowledge
Gay*

RECEIVED
AUG 7 1989

ENVIRONMENTAL HEALTH SYSTEM
FRESNO COUNTY DEPT. OF HEALTH

August 1, 1989

Ms. Roberta Howe
California Regional Water Quality Control Board
Central Valley Region/San Joaquin Watershed Branch Office
3614 East Ashland Avenue
Fresno, CA 93726

Dear Ms. Howe:

This is in response to your letter of July 18, requesting that this agency the United States Department of Agriculture, Agricultural Research Service (USDA-ARS), provide you with a plan of action and milestone (POAM), for remedial actions from past disposal of laboratory wastes down drywells at the Fresno Horticultural Research Facility, Fresno County.

It is requested that a meeting be scheduled at a mutually convenient time with your office, the Department of Health Services, Fresno County Health Department, and perhaps Region 9, the Environmental Protection Agency (EPA); so that we may discuss in detail the actions taken to date and proposed future actions.

As mentioned in our telephone conversation on July 20, Mr. Baumeister is no longer in this office. The Safety and Health Manager position for the Pacific West Area is now my responsibility, and I have several questions regarding the Geotechnical Investigation you are requesting. I prefer that the meeting be at your location or at least in your area, in the event a site visit is necessary.

You may contact me regarding details of this meeting at 415/559-6004.

Sincerely,

Alvin Humphrey
ASHM, PWA

cc:

- C. Reder, AAO, PWA
- T. Roark, CSHP, GSD, Hyattsville
- G. Sundstrom, SS, GSD, Hyattsville
- C. Phene, RL, Fresno
- S. Guthrie, LOA, Fresno
- G. White, Department of Health Services
- L. Dooley, Fresno County Health Department
- C. Penly, EPA, Region 9

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—
CENTRAL VALLEY REGION**

SAN JOAQUIN WATERSHED BRANCH OFFICE:
3614 EAST ASHLAN AVENUE
FRESNO, CALIFORNIA 93726
PHONE: (209) 445-5116

15 May 1987

Mr. Russel Baumeister
U. S. Department of Agriculture
800 Buchanan Street
Albany, CA 94710

FRESNO HORTICULTURAL RESEARCH FACILITY, FRESNO COUNTY

We have reviewed the information that you recently submitted concerning the past disposal of laboratory wastes down drywells at the subject facility. Enclosed are our comments.

We conclude the past discharges of laboratory wastes, containing hazardous constituents, into drywells at the facility may have impacted ground water quality and may pose an ongoing threat to ground water quality.

It will therefore be necessary for you to provide us with a report to assess the effects of the laboratory waste disposal facilities on ground water. The report should be prepared under the direction of a registered engineer or engineering geologist and should include the information indicated in the enclosed Outline for Report on Geotechnical Investigation.

Prior to 1 July 1987, please provide us with a work plan for developing the information to be included in the report. The plan should provide sufficient detail to allow us to determine the adequacy of the proposed study.

It should also contain a time schedule for conducting the study and submitting the report.

If you have any questions, please telephone Tim Souther at 445-5525.

F. Scott Nevins

F. SCOTT NEVINS
Senior Engineer

TGS:djb

Enclosure

cc: Mr. Gerry White, Department of Health Services, Fresno
Mr. Lou Dooley, Fresno County Health Department, Fresno

Memorandum

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD • CENTRAL VALLEY REGION

3614 E. Ashlan
Fresno, CA 93726-6905

SAN JOAQUIN WATERSHED BRANCH

Telephone: (209) 445-5116
State Lease Line: 421-5116

TO: F. SCOTT NEVINS
Senior Engineer

FROM: TIMOTHY G. SOUTHER
Environmental Specialist III

DATE: 15 May 1987

SIGNATURE: 

SUBJECT: USDA, FRESNO HORTICULTURAL RESEARCH FACILITY, FRESNO COUNTY

I have reviewed the information recently submitted by the USDA concerning the past disposal of laboratory wastes down drywells at the Facility. The following are my comments:

1. In their 9 September 1986 letter, the USDA proposed submitting a technical report that would include the following:

"An extended statement of the history of the location, describing the mission and nature of the various research programs;

Schematics and descriptions of the construction and operations of the drywells;

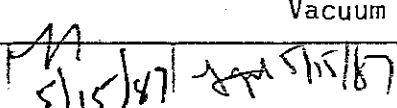
Geophysical maps of the area to illustrate the soil types and available water quality information;

An illustration of the construction of the onsite supply wells; and

A critical review of the information and a professional opinion on the potential of the chemicals discharged in drywells to affect ground water quality."

2. In our letter, dated 31 December 1986, we advised the USDA that the above was found an appropriate next step and they should proceed with their proposal. We also advised the USDA they must have certain information presented by the appropriate California-registered professional civil engineer, engineering geologist or geologist.
3. The USDA provided a summary of the history of the facility including the materials discharged to drywells. Since 1928, laboratory wastes of various kinds have been discharged to seven drywells. The discharges ceased in 1983 when the USDA was connected to the City of Fresno sewage treatment and disposal system. The discharged laboratory wastes included the following:

Autoclave Wastes
Laboratory Washwater
Laboratory Acids
Solvents
Vacuum Cooler Salts

Reviewed by: 

15 May 1987

In addition to the above laboratory wastes, septic tank overflow wastewater, condensate from a refrigeration system and condensate from a still were also discharged to the drywells.

4. The drywell locations are indicated on the attached Figure 1.
5. The available details on the construction of the drywells are indicated on the attached Figure 2.
6. The materials discharged to each drywell are indicated on the attached Table 1.
7. An estimate of the various chemicals used is on the attached Table 2. It is not clear whether the volumes on Table 2 represent the amounts discharged of those chemicals or the volume of those materials used in Facility operations.
8. The submittal did not include any information of area soils, geology or ground water hydrology.
9. The submittal did not include any information on the construction of onsite wells.
10. The USDA did provide copies of analytic results of water samples collected from three City water supply wells most likely to serve the Facility. The location of these wells with respect to the Facility was not indicated. Water quality in these samples was excellent except for some high DBCP levels.
11. The USDA concluded "...the types of chemicals (discharged) in drywells has not influenced water quality in the immediate area." This conclusion was presented as the opinion of the USDA staff and was not supported with data nor a rationale.
12. The submittal did not include a critical review of the available information by a California-registered civil engineer, engineering geologist or geologist to ascertain the potential for the discharged chemicals to affect ground water quality.
13. All of the chemicals listed on the attached table 2 are not listed as "hazardous constituents" in Section 66680, Title 22 of the California Health and Safety Code.
14. Surface soils in the area consist of Ramona loams with moderate permeability. We do not have information on the character of deeper soil types in the area.
15. Ground water in the area is found at about 60 feet in depth, flows to the northwest and serves municipal, domestic and agricultural beneficial uses. It generally is of excellent quality, with the exception of some high DBCP levels.
16. Since the drywells are about 30 feet in depth, the discharges of laboratory wastes were released at only about 30 above ground water.

15 May 1987

17. Past disposal of laboratory wastes (including hazardous constituents) in drywells at the Facility may have impacted ground water quality. Hazardous constituents may still be contained in the soils column around or below the drywells. Fluctuations in ground water elevation, or recharge of water at the surface near these drywells may allow for migration of contaminants contained in the soils column.

CONCLUSIONS:

The past discharges of laboratory wastes, containing hazardous constituents, into drywells at the Fresno Horticultural Research Facility may have impacted ground water and may pose an ongoing threat to ground water quality.

We should again request the USDA to develop and submit a technical report which contains a work plan for contamination assessment/closure of the drywells that have accepted laboratory wastes and contamination assessment of ground water below the Facility. The plans should be submitted by a California-registered civil engineer, engineering geologist or geologist and should address the items on our "Outline for Report on Geotechnical Investigation", as a minimum.

TGS:djb

Attachments

Outline for Report on Geotechnical Investigation

1. Quality Assurance Program

- a. Description of program which includes a description of procedures used for sampling, sample preservation, chain of custody, chemical analyses, use of split and spiked samples, and data reduction. Explain any deviations from recommended U. S. Environmental Protection Agency methods.
- b. Detection limits of analyses.

2. Waste Characterization

- a. Develop a list of contaminants of concern. Include a discussion of methods used to determine them. Include literature references and/or the results of sampling and analyses and rationale for selection of the contaminants.

3. Geology and Hydrology of the Area

- a. Soil types.
- b. Existence or absence of clay layers or aquitards.
- c. Ground water occurrence (confined, unconfined, perched).
- d. Depth to ground water.
- e. Ground water gradients.

4. Lateral and Vertical Extent of Contaminants in Soils

- a. A description of the work accomplished to identify contaminants and their limits.
- b. Supporting data used to determine extent of contaminants (location of borings, sampling interval, sampling and analysis data, etc.)
- c. Identification of lateral and vertical boundaries of contaminants in soils including contaminant concentrations. Include relationships of soil contaminants to normal and maximum ground water elevations.

5. Lateral and Vertical Extent of Ground Water Degradation

- a. A description of the work accomplished to identify the extent of the plume of ground water degradation.
- b. Supporting data used to define the extent of degradation (well locations, well construction data, sampling and analysis data, etc.)
- c. Identification of vertical and lateral boundaries of the plume of degradation including determined contaminant concentrations. This section should include the rationale for the location of the plume boundaries.

Outline for Report on Geotechnical Investigation

-Continued-

6. Proposed Program Planned for:

- a. Containment of the degradation within the plume boundaries. Include information to support the adequacy of the program, a proposed monitoring program to determine its effectiveness and a time schedule for implementation.
- b. Cleanup of the degraded area. Include methods proposed and a time schedule for implementation.

FSN:hmm

5/3/84

ST BULLER AVENUE

WEST QUARTER CORNER
SEC. 8, T14S R21E FOUND CUT
ON MANHOLE RIM.

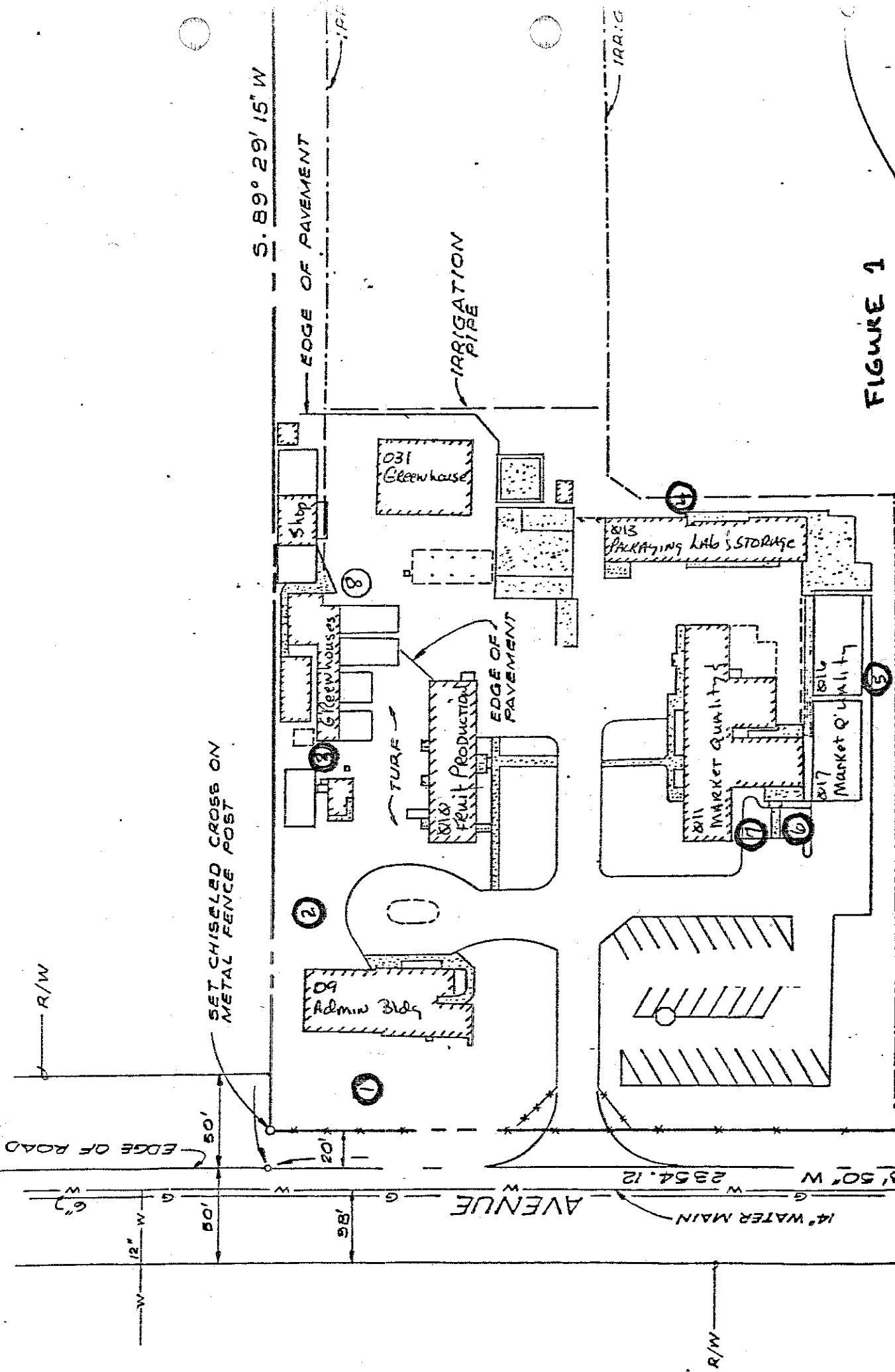


FIGURE 1

Dry well const:

Dry wells are: approx 30 ft in depth
and 3 ft in Diameter back filled with a
coarse aggregate.

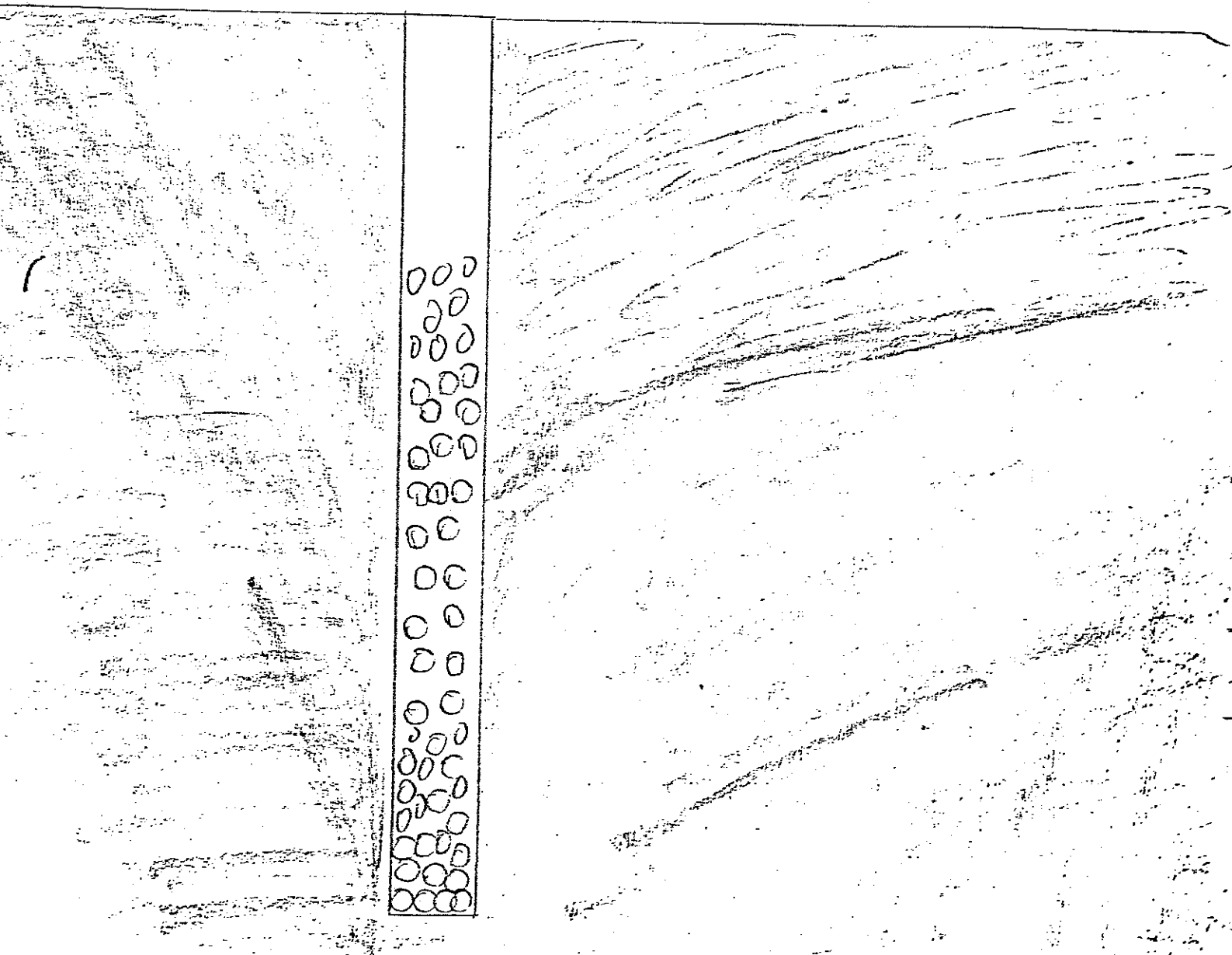


FIGURE 2

TABLE 1

Use of Dry Wells and Materials Discharged 2021 South Peach Avenue

- #1
 - a. Overflow from domestic septic tank (lavatories in Administrative Building and Genetics Laboratory)
 - b. Discharge from autoclave and laboratory dishwasher
 - c. Laboratory acids and bases (HCl, H₂, H₂SO₄, Na, OH, acetic)

- #2
 - a. Overflow from domestic septic tank (lavatories in Administrative Building and Genetics Laboratory)
 - b. Discharge from autoclave and laboratory dishwasher
 - c. Laboratory acids and bases (HCl, H₂, H₂SO₄, Na, OH, acetic)

- #3
 - a. Condensate from refrigeration system
 - b. Discharge from water-cooled condensers
 - c. Soaps and detergents from laboratory dishwasher

- #4
 - a. Condensate from refrigeration system
 - b. Water from cooling system
 - c. Salt from vacuum cooler
 - d. Soaps and detergents from laboratory dishwasher

- #5
 - a. Overflow from septic tank
 - b. Condensate from refrigeration
 - c. Detergents and soap from laboratory dishwasher
 - d. Acids and bases used in laboratory

- #6
 - a. Detergents and soap used in laboratory dishwasher
 - b. Condensate from still
 - c. Acids and bases used in laboratory
 - d. Solvents (xylene, toluene, ethyl alcohol) - small amounts

- #7
 - a. Domestic use, hand-wash sink, soaps, drain from autoclave

TABLE 2

Chemicals used at USDA, ARS, Fresno Horticultural Research Facility are based, as previously agreed, upon the best recollection of the long-term employees. These chemicals would have been used from the early 1950's to about 1981 or 1983.

<u>Chemical</u>	<u>Quantity</u>	<u>Useage Stopped</u>
1. Acetic Acid *	1 pt. per year	-
2. Chromium Compounds *	Lab bench work	1970
3. Chromic Acid *	Lab bench work	1970
4. Chromium Chloride *	Lab bench work	1970
5. Copper Compounds *	Minimal	-
6. Copper Sulfate *	10 grams per year	-
7. Ethyl Alcohol *	5 gals. per year (mostly burned)	-
8. Ferric Chloride *	50 grams per year, max.	-
9. Formic Acid *	1 pt. per year, max.	-
10. Hydrochloric Acid *	1 qt. per year, since 1940	-
11. Nitric Acid *	Less than 1 qt. per year; (less recently)	-
12. Phosphoric Acid *	Less than 1 qt. per year; (less recently)	-
13. Potassium Permanganate *	50 grams per year	1970
14. Sodium Dichromate *	800 grams per year	1970
15. Sodium Hydroxide *	2 gals. per year	1970
16. Sulfuric Acid *	2 gals. per year	1970
17. Toluene *	10 ml. per year; (none recently)	-

* "Hazardous constituents" (CAC section 66680)

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—
CENTRAL VALLEY REGION**

SAN JOAQUIN WATERSHED BRANCH OFFICE:
3614 EAST ASHLAN AVENUE
FRESNO, CALIFORNIA 93726
PHONE: (209) 445-5116



31 December 1986

Mr. Russell Baumeister
United States Department of Agriculture
Agricultural Research Service
800 Buchanan Street
Albany, CA 94710

FRESNO HORTICULTURAL RESEARCH CENTER, FRESNO COUNTY

We have reviewed your proposal for assessing the potential threats to ground water quality from past disposal practices at the Center. Enclosed are our comments.

We conclude that your proposal is an appropriate next step and you should proceed. Please provide a report containing the results of your proposal by 15 March 1987.

If you have any questions, please call Tim Souther, Environmental Specialist III at (209) 445-5525.

A handwritten signature in cursive script that reads "F. Scott Nevins".

F. SCOTT NEVINS
Senior Engineer

TGS:djb

Enclosure

cc: Mr. Gerry White, Department of Health Services, Fresno
Mr. Lou Dooley, Fresno County Health Department, Fresno

Memorandum

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD • CENTRAL VALLEY REGION

3614 E. Ashlan
Fresno, CA 93726-6905

SAN JOAQUIN WATERSHED BRANCH

Telephone: (209) 445-5116
State Lease Line: 421-5116

TO: F. SCOTT NEVINS
Senior Engineer

FROM: TIMOTHY G. SOUTHER
Environmental Specialist III

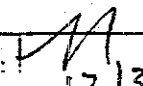
DATE: 31 December 1986

SIGNATURE: 

SUBJECT: UNITED STATES DEPARTMENT OF AGRICULTURE, FRESNO HORTICULTURAL
RESEARCH CENTER, FRESNO COUNTY

I have reviewed the USDA's recent proposal to address our concerns as were expressed in our letters of 25 August 1985 and 28 January 1986. The following are my comments:

1. In our 28 January 1986 letter, we requested the USDA submit "a proposal to assess the potential threat to ground water quality" from past disposal practices at the Center. The major disposal practice of concern was identified as laboratory waste drywells.
2. The USDA proposed the following:
 - "(1) An extended statement of the history of the Center, describing the mission and nature of the various research programs:
 - (2) Schematics and descriptions of the construction and operations of the drywells the Board staff was concerned about:
 - (3) Geophysical maps of the area to illustrate the soil types and available water quality information:
 - (4) An illustration, prepared by the Center personnel, of the construction method of the on-site supply wells for future references to see how they may affect ground water in the immediate areas, and:
 - (5) A critical review and analysis will be prepared by Mr. Sunstrom (Environmental Specialist, Agricultural Research Service), of the presented information to render a professional opinion on the potential of the reviewed chemicals propensity to move to the ground water in the times involved."
3. The USDA hopes to show with the proposal that past activities at the center have not "contributed in any way to contamination of local ground water".
4. The proposal is an appropriate first step in delineating possible threats to ground water quality at the Center.

Reviewed by: 
12/30/86

5. In conducting items (3) and (5) of their proposal, the USDA should be careful to comply with the provisions of the Business and Professions Code as outlined in the attached Guidance Memorandum from the State Water Resource Control Board.

CONCLUSIONS:

The USDA has submitted a proposal to begin assessment of potential threats to ground water quality from past activities at the Fresno Horticultural Research Center. The proposal is an appropriate next step and we should advise the USDA to proceed with their proposal.

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—
CENTRAL VALLEY REGION**

SAN JOAQUIN WATERSHED BRANCH OFFICE:
3374 EAST SHIELDS AVENUE, ROOM 18
FRESNO, CALIFORNIA 93726
PHONE: (209) 445-5116



28 January 1986

Mr. Russel Baumeister
United States Department of Agriculture
Agricultural Research Service
800 Buchanan Street
Albany, CA 94710

FRESNO HORTICULTURAL RESEARCH FACILITY, PEACH AVENUE, FRESNO COUNTY

We have reviewed your response to our 27 August 1985 request for a contamination assessment of past disposal of laboratory wastes in drywells at the subject facility. Enclosed are our comments.

Based on your response we concluded that the United States Department of Agriculture has disposed of what are now considered hazardous constituents down drywells at the facility, has conducted experimental testing of fumigants in test plots and has found some "DDT contamination" at the facility.

All the above could pose a threat to ground water quality in the area. Please submit a proposal to assess the potential threat to water quality from these activities. We should receive your proposal by 1 March 1986.

If you have any questions, please call Tim Souther, of this office at (209) 445-5525.

A handwritten signature in cursive script that reads "Sargeant J. Green".

SARGEANT J. GREEN
Senior Land and Water Use Analyst

TGS:sjb

Enclosure

cc: Ms. Sharon Guthrie, U. S. Department of Agriculture, Fresno
Mr. Gerry White, Toxic Substances Control Division, Department of Health Services, Fresno
Mr. Lou Dooley, Fresno County Health Department, Fresno
Mr. Bob Miller, City of Fresno, Fresno

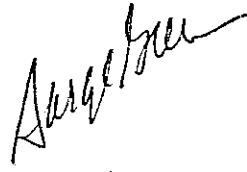
Memorandum

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD • CENTRAL VALLEY REGION

3374 E. Shields Avenue, Room 18 Fresno, California 93726

Phone: (209) 445-5116

TO: Sargeant J. Green
Senior Land and
Water Use Analyst



FROM: Timothy G. Souther
Staff Environmental Specialist

DATE: 12 December 1985

SIGNATURE: 

SUBJECT: U. S. DEPARTMENT OF AGRICULTURE, FRESNO HORTICULTURAL RESEARCH FACILITY, FRESNO COUNTY

I have reviewed the USDA's response to our letter of 27 August 1985. In our letter we requested submittal of "a proposal detailing all waste constituents disposed of down the drywells (at the Fresno facility) and a contamination assessment proposal for soil and ground water in the vicinity of the past disposal areas." The following are my comments on the USDA's response:

1. The USDA states the facility has been in use since at least 1928 and they cannot determine all wastes disposed of down drywells.
2. Six drywells are described as having been used for the disposal of liquid wastes at the facility. Four other "drywells" are noted on the facility plan, although their purpose was not explained. No construction details for any of these drywell systems were provided.
3. These drywells have been used for the disposal of various liquid wastes, including the following:
 - Domestic Wastes (Sewage, Sink Wash Water, etc.)
 - Laboratory Wastes (Acids, Bases, Solvents, Pesticide Residues)
 - Cooling System Condensate
 - Salts from Vacuum Cooler

Some of the above, specifically laboratory wastes, could affect beneficial uses of ground water, even in very small quantities. The USDA indicates "the quantities are extremely small volumes from laboratory cleanup and use areas", although no volumes were provided.

4. The USDA indicated "some DDT was found on site many years ago", although no description of this finding was provided.
5. The USDA indicated "the principal chemical usage involved in (plant breeding and developing new plant varieties) would be testing of various types of soil fumigants in the orchard itself." Ground water in the southern Fresno area has been found to contain DBCP from fumigation of orchards and vineyards. The USDA's fumigant testing program may also pose a threat to ground water quality in the area.

6. Other laboratory chemicals disposed of down the drywells would now be considered "Hazardous Constituents" (CAC Section 66680). These constituents are as follows:

- Acetic Acid
- Chromium Compounds
- Chromic Acid
- Chromium Chloride
- Copper Compounds
- Copper Sulfate
- Ethyl Alcohol
- Ferric Chloride
- Formic Acid
- Hydrochloric Acid
- Nitric Acid
- Phosphoric Acid
- Phenylphenol
- Potassium Permanganate
- Sodium Dichromate
- Sodium Hydroxide
- Sulfuric Acid
- Toluene

The disposal of the above materials poses a threat to ground water quality.

CONCLUSIONS:

USDA has provided information on past disposal of hazardous constituents in drywells. USDA has also conducted testing of soil fumigants. USDA has some "DDT findings" at the facility that may need investigation. All the above pose a threat to ground water quality. All the above should be the subject of a contamination assessment that would include soil and ground water sampling/analysis. We should again request the USDA to submit a contamination assessment proposal.

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—
CENTRAL VALLEY REGION**

SAN JOAQUIN WATERSHED BRANCH OFFICE:
3374 EAST SHIELDS AVENUE, ROOM 18
FRESNO, CALIFORNIA 93726
PHONE: (209) 445-5116



28 January 1986

Mr. Harold Meyers
Agricultural Field Stations
University of California
Davis, CA 95616

TOXIC PITS CLEANUP ACT (TPCA) APPLICATIONS - WESTSIDE, LINDCOVE AND KEARNEY
FIELD STATIONS, FRESNO AND TULARE COUNTIES

We have reviewed the TPCA applications that you recently submitted for the subject facilities. Enclosed are our comments on each.

Our comments find each of the applications to be incomplete due to the lack of a proposal to conduct an Hydrogeologic Assessment Report (HAR). Please complete your applications and advise us of your plans for use of the impoundments until the HARs are completed. We should receive the above by 15 April 1986.

If you have any questions, please call Tim Souther, Environmental Specialist of this office at (209) 445-5525.

A handwritten signature in cursive script that reads "Sargeant J. Green".

SARGEANT J. GREEN
Senior Land and
Water Use Analyst

TGS:sjb

Enclosures

cc: Mr. Kevin Shaddy, Department of Health Services, Fresno
Mr. Lou Dooley, Fresno County Environmental Health Department, Fresno
Mr. Jim Waters, Tulare County Environmental Health Department, Visalia

Memorandum

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD • CENTRAL VALLEY REGION

3374 E. Shields Avenue, Room 18

Fresno, California 93726

Phone: (209) 445-5116

TO: Sargeant J. Green
Senior Land and
Water Use Analyst

Sargeant J. Green

FROM: Timothy G. Souther
Environmental Specialist

DATE: 28 January 1986

SIGNATURE: *Tim Souther*

SUBJECT: TOXIC PITS CLEANUP ACT (TCPA) APPLICATION, UNIVERSITY OF CALIFORNIA,
WESTSIDE FIELD STATION, FRESNO COUNTY

I have reviewed the subject TCPA application submitted by the University on 3 January 1986 for the subject facility. The following are my comments:

1. The University submitted their application for one surface impoundment. The impoundment was not identified, but it is probably for their pesticide rinse water pond.
2. The University did not request an exemption for the impoundment.
3. The University submitted a \$1,500.00 filing fee. This appears to be the appropriate amount.
4. The University did not submit an Hydrogeologic Assessment Report (HAR) with their application.
5. The University did not indicate whether or how they intend to utilize the impoundment until the HAR is completed.

CONCLUSIONS:

We should advise the University that their TCPA application is incomplete because of the lack of a proposal for conducting an HAR.

We should ask the University to complete their TCPA application and advise us of their intended use of the impoundment until the HAR is completed.

TGS:sjb

Memorandum

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD • CENTRAL VALLEY REGION

3374 E. Shields Avenue, Room 18

Fresno, California 93726

Phone: (209) 445-5116

TO: Sargeant J. Green
Senior Land and
Water Use Analyst

FROM: Timothy G. Souther
Environmental Specialist

DATE: 28 January 1986

SIGNATURE: 

SUBJECT: TOXIC PITS CLEANUP ACT (TPCA) APPLICATION, UNIVERSITY OF CALIFORNIA,
LINDCOVE FIELD STATION, TULARE COUNTY

I have reviewed the subject TPCA application submitted by the University on 3 January 1986 for the subject facility. The following are my comments:

1. The University submitted their application for one surface impoundment. The impoundment was not identified, but it is probably for their pesticide rinse water pond.
2. The University did not request an exemption for the impoundment.
3. The University submitted a \$1,500.00 fee to be the appropriate amount.
4. The University did not submit an Hydrogeologic Assessment Report (HAR) with their application.
5. The University did not indicate whether or how they intend to utilize the impoundment until the HAR is completed.

CONCLUSIONS:

We should advise the University that their TPCA application is incomplete because of the lack of a proposal for conducting an HAR.

We should ask the University to complete their TPCA application and advise us of their intended use of the impoundment until the HAR is completed.

TGS:sjb

Reviewed By			
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Memorandum

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD • CENTRAL VALLEY REGION

3374 E. Shields Avenue, Room 18

Fresno, California 93726

Phone: (209) 445-5116

TO: Sargeant J. Green
Senior Land and Water
Use Analyst

FROM: Timothy G. Souther
Environmental Specialist

DATE: 28 January 1986

SIGNATURE: 

SUBJECT: TOXIC PITS CLEANUP ACT (TCPA) APPLICATION, UNIVERSITY OF CALIFORNIA,
KEARNEY FIELD STATION, FRESNO COUNTY

I have reviewed the subject TCPA application submitted by the University on 3 January 1986 for the subject facility. The following are my comments:

1. The University submitted their application for one surface impoundment. The impoundment was not identified, but it is probably for their pesticide rinse water pond.
2. The University did not request an exemption for the impoundment.
3. The University submitted a \$1,500.00 fee to be the appropriate amount.
4. The University did not submit an Hydrogeologic Assessment Report (HAR) with their application.
5. The University did not indicate whether or how they intend to utilize the impoundment until the HAR is completed.

CONCLUSIONS:

We should advise the University that their TCPA application is incomplete because of the lack of a proposal for conducting an HAR.

We should ask the University to complete their TCPA application and advise us of their intended use of the impoundment until the HAR is completed.

TGS:sjb

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—
CENTRAL VALLEY REGION**

SAN JOAQUIN WATERSHED BRANCH OFFICE:
3374 EAST SHIELDS AVENUE, ROOM 18
FRESNO, CALIFORNIA 93726
PHONE: (209) 445-5116



Chick

27 August 1985

file

Ms. Sharon Guthrie
U. S. Department of Agriculture
P. O. Box 8143
Fresno, CA 93747

FRESNO HORTICULTURAL RESEARCH FACILITY, FRESNO COUNTY

Your facility was recently inspected by our staff to investigate past disposal of waste and, on a subsequent visit, to evaluate on-going pesticide waste management practices. Attached are copies of the inspection reports.

The reports conclude that past disposal of laboratory chemicals down drywells may pose an on-going threat to ground water quality. Your current disposal methods appear to comply with the Board's regulations.

You need to submit a proposal for detailing all waste constituents disposed of down the drywells and a contamination assessment proposal for soil and ground water in the vicinity of the past disposal areas. We should receive your proposal by 1 November 1985.

Should you have any questions, please call Tim Souther of this office at 445-5525.

Sargeant J. Green

SARGEANT J. GREEN
Senior Land and Water Use Analyst

TGS:hmm

Attachment

cc: Mr. Gerry White, Department of Health Services, Fresno
Mr. Lou Dooley, Fresno County Health Department, Fresno
Mr. Bob Miller, City of Fresno

INSPECTION REPORT

23 July 1985

DISCHARGER: UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE

LOCATION & COUNTY: Fresno Horticultural Research Facility, Fresno County

CONTACT(S): Sharon Guthrie, Administrative Officer

INSPECTION DATE: 12 July 1985

INSPECTED BY: Timothy G. Souther

ACCOMPANIED BY: Dave Ramming, Research Horticulturalist

OBSERVATIONS AND COMMENTS:

I visited the subject facility, following up on my inspection of 2 July 1985, to discuss pesticide management with Mr. Ramming.

Mr. Ramming indicated that no chemical experimentation is conducted at the facility. Only registered pesticides are applied to test plots under label directions. Pesticide wastes generated at the facility are managed as follows:

<u>MATERIAL</u>	<u>DISPOSAL METHOD</u>
Rinsed Pesticide Containers	Unknown Disposal Site
Pesticide Container Rinse Water	Field Applied
Pesticide Application Equipment Rinse Water	Field Applied

Mr. Ramming said that U. S. Department of Agriculture staff mix pesticide applications adjacent to their agricultural water supply well and maintain an airgap to prevent backsiphoning. Containers are rinsed and the rinse water is applied to the target crop with the application mix. The application equipment rinse water is also applied to the target field. Mr. Ramming was uncertain when the rinsed containers were hauled off-site or where the containers were disposed of.

Mr. Ramming indicated that mixing spillage could have occurred near the well and would have drained away from the well toward the east into field test plots.

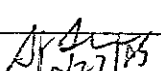
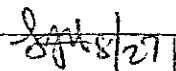
INSPECTION SUMMARY:

The USDA waste management practices appear consistent with our rules and regulations with the possible exception of pesticide container disposal. We should have the USDA provide a summary of their past and proposed pesticide container disposal methods and an assessment of possible contamination of their agricultural supply well.


TIMOTHY G. SOUTHER
Environmental Specialist III

TGS:sjb

REVIEWED BY:

 8/27/85 |  8/27/85

INSPECTION REPORT

DISCHARGER: U. S. DEPARTMENT OF AGRICULTURE, 12 July 1985
 AGRICULTURAL RESEARCH SERVICE

LOCATION & COUNTY: Fresno Horticultural Research Facility, Fresno County

CONTACT(S): Ms. Sharon Guthrie, Administrative Officer

INSPECTION DATE: 2 July 1985

INSPECTED BY: Timothy G. Souther, Environmental Specialist III

ACCOMPANIED BY: Ms. Guthrie and Messrs. Warner Lipton, Research Leader,
 Pat Vail, Laboratory Director and John Harvey, Researcher

OBSERVATIONS AND COMMENTS:

I visited the subject facility to investigate past disposal of wastes down drywells in accordance with the attached memorandum to ascertain compliance with the Board's rules and regulations and to ascertain any potential threats to water quality.

Mr. Lipton indicated that the USDA has operated the facility at 2021 South Peach Avenue as a crop research facility since the 1920's. The facility is a plant pathology and plant genetics research facility. Only registered pesticides are applied at the facility under labeled directions. Mr. Dave Raming conducts the pesticide application on field plots. He was not available at the time of my inspection.

Mr. Vail indicated that until the facility was recently connected to the City of Fresno sewage treatment system, wastewater generated at the facility was disposed of down on-site septic tank/drywell systems. The wastes included domestic wastes, air conditioning condensate and laboratory wastes. The laboratory wastes included various acids, bases, organic solvents, surfactants, wetting agents and some pesticide residues.

Mr. Lipton indicated that he had observed the installation of one of the drywells and recalled that they were about 3 feet in diameter and brick lined. The USDA staff had no information on the depth of the wells. The last drywell may have been installed in 1974 to 1981.

Mr. Harvey pointed out the location of six drywells around the property and speculated that there may have been another. One of the drywells was apparently still in use for domestic wastes and air conditioning condensate disposal. The wells served offices and various laboratories.

Ms. Guthrie requested Mr. Harvey to develop and submit to our office, a plot plan of the facility indicating the locations of drywells and the materials disposed of in those wells.

REVIEWED BY: <i>AGS</i>	<i>7/27/85</i>		
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12 July 1985

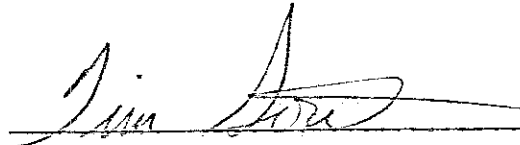
The facility has one ag supply well and an abandoned domestic well on the facility. The facility is currently connected to the City of Fresno municipal water supply. Ground water in the area is found at a depth of about 60 feet and is of good quality with some nitrate and DBCP problems.

Soil at the facility consists of Ramona loam with moderate permeability.

CONCLUSIONS:

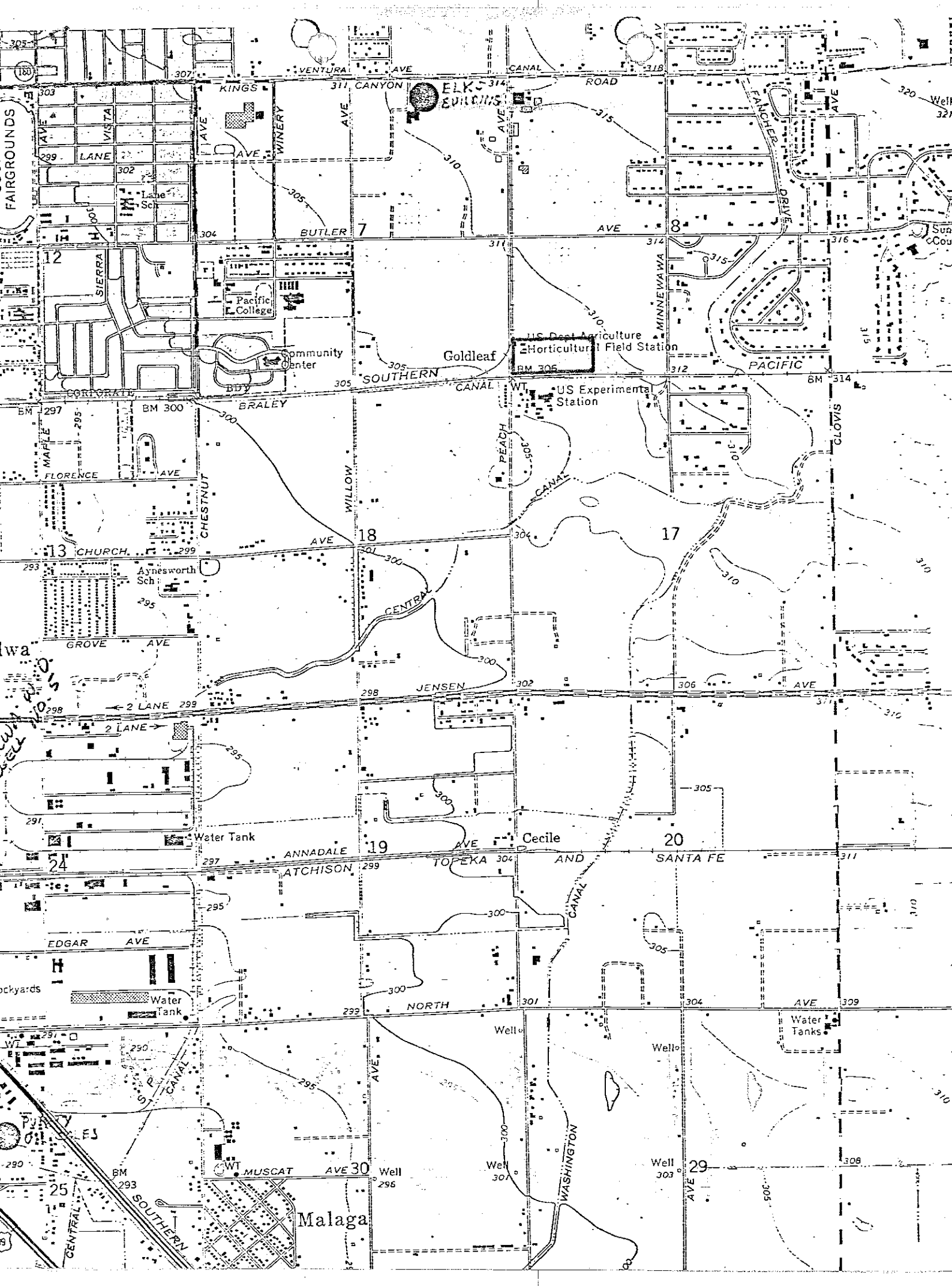
The disposal of laboratory chemicals in drywells may pose a threat to ground water quality. We should request the USDA to detail all wastes generated at the site since its inception, the disposal methods for each waste stream and a contamination assessment proposal for contamination assessment of soil and ground water below the drywells that accepted laboratory waste or other wastes that may pose a threat to water quality.

I will contact Mr. Raming to evaluate pesticide waste management practices at the facility.



TIMOTHY G. SOUTHER
Staff Environmental Specialist

TGS:hmm



Malaga

ELKS 314 EDIFICES

US Dept Agriculture Horticultural Field Station

US Experimental Station

Goldleaf

Pacific College

Community Center

Aynesworth Sch

Water Tank

Water Tank

Water Tanks

Well 296

Well 301

Well 303

Well 308

WELL NO. 29

DEPARTMENT OF HEALTH SERVICES

TOXIC SUBSTANCES CONTROL DIVISION
NORTHERN CALIFORNIA SECTION
4250 POWER INN ROAD
SACRAMENTO, CA 95825
(916) 739-3145



4162 - New File
April 22, 1985

To: See Attached Mailing List

PUBLIC REVIEW OF DRAFT HAZARDOUS WASTE PERMIT

Enclosed is a copy of the Statement of Facts and Public Notice on a draft Hazardous Waste Storage Permit for:

Department of Agriculture
County of Fresno
1730 S. Maple Avenue
Fresno, California 93702

As indicated in the Public Notice, you are invited to review the permit documents in our office and submit written comments.

Sincerely,

A handwritten signature in cursive script that reads "Wade Cornwell".

Wade Cornwell, P.E.
Senior Engineer

PC: jka

Enclosures

Mailing List (List Name of Facility)

1. State Water Resources
Control Board
Executive Office
P. O. Box 100
Sacramento, CA 95801
2. Sierra Club
Mother Lode Chapter
1228 N St., Suite 31
Sacramento, CA 95816
3. League of Women Voters
2206 "K" Street
Sacramento, CA 95816
4. Toxics Alliance
P. O. Box 163063
Sacramento, CA 95816
5. RWQCB - Fresno
3374 East Shields Avenue
Fresno, CA 93726
6. Fresno County Environmental Health ✓
P.O. Box 11867
1221 Fulton Mall
Fresno, CA 93775
Attn: Larry Oberti

DEPARTMENT OF HEALTH SERVICES

PERMITS, SURVEILLANCE AND ENFORCEMENT SECTION
HAZARDOUS WASTE MANAGEMENT BRANCH
4250 POWER INN ROAD—CENTRAL REGION
SACRAMENTO, CA 95826
(916) 739-3145



STATEMENT OF FACTS

Department of Agriculture
County of Fresno
1730 S. Maple
Fresno, CA 93702

HAZARDOUS WASTE FACILITY PERMIT
(County of Agricultural Commissioner)

I. County of Fresno Facility

This facility will receive and store hazardous waste, which shall be limited to household pesticides and/or spill clean up material from labeled pesticide products, until transported to a hazardous waste disposal site or to a hazardous waste recycling facility. Unlabeled pesticides may be accepted on a case by case basis at the discretion of the commission.

The facility, consisting of a hazardous waste storage area, has a total capacity of five 55-gallon drums.

II. Type and Quantities of Waste

This facility will not store more than 150 gallons of waste at any one time.

The following general classes of pesticides may be accepted:

- (1) Organophosphates
- (2) Carbamates
- (3) Chlorinated hydrocarbons
- (4) Inorganics
- (5) Pyrethroids
- (6) Arsenicals
- (7) Anticoagulants
- (8) Botanicals
- (9) Adjuvants
- (10) Herbicides
- (11) Fumigants
- (12) Fungicides

Wastes prohibited at this facility are:

- (1) Radioactive
- (2) Explosives
- (3) Extremely hazardous waste unless specifically permitted
- (4) Trash and garbage
- (5) Any hazardous waste not listed in the approved Operational Plan

III. Explanation of Draft Permit Conditions

The application, Operational Plan and supplementary documents have been reviewed and found to be complete.

All conditions and terms of the permit are required under Chapter 6.5 Division 20, California Health and Safety Code and Chapter 30, Title 22, California Administrative Code.

The general conditions in Section II of the proposed permit are standard conditions found in every permit and are based on requirements of the State operation plan guidelines.

The special conditions in Section III of the proposed permit contain requirements which provide for:

- | | |
|-------------|---|
| (1) Item A | Prohibition of disposal |
| (2) Item B | List of prohibited waste |
| (3) Item C | Storage conditions |
| (4) Item D | Management of ignitable, reactive or incompatible waste |
| (5) Item E | Operations at night |
| (6) Item F | Manifest system |
| (7) Item G | Security |
| (8) Item H | Inspections |
| (9) Item I | Personnel training |
| (10) Item J | Contingency Plan |
| (11) Item K | Emergency equipment |
| (12) Item L | Aisle space |
| (13) Item M | Recordkeeping and reporting |
| (14) Item N | Closure plan |

IV. Contact Person

Pieter Crosby
 Waste Management Specialist II
 Department of Health Services
 Toxic Substances Control Division
 4250 Power Inn Road
 Sacramento, CA 95817
 Telephone: (916) 739-3172

PUBLIC NOTICE

State Department of Health Services
Intent to Issue
A Hazardous Waste Facility Permit

The Department of Health Services, Toxic Substances Control Division, proposes to issue a State Hazardous Waste Facility Permit to:

Department of Agriculture
County of Fresno
1730 S. Maple
Fresno, CA 9372

The permit will be the final authorization for this facility to store hazardous waste under specific conditions which assure safe operation. On-site disposal of hazardous waste is prohibited.

By this notice, the Department is inviting comments from governmental agencies and interested members of the public before issuance of this permit. All comments must be received in writing by the Department within 45 days of the publication of this notice. All comments will be taken into consideration and addressed in the administrative record. A request for a public hearing must be justified in writing.

The draft permit, Operation Plan, and related documents are available for public review from the hours of 8:00 a.m. to 5:00 p.m., Monday through Friday at:

The Department of Health Services
Northern California Section
Toxics Substances Control Division
4250 Power Inn Road
Sacramento, CA 95826
(916) 739-3145

Written comments should also be sent to this address.

Contact Person: Pieter Crosby



United States Department of Agriculture

Research, Education and Economics
Agricultural Research Service

RECEIVED

JAN 29 2003

Department of Community Health
Environmental Health System

January 27, 2003

Paul Sanders
Community Health Department
Environmental Health System
Hazardous Materials Section
1221 Fulton Mall
Fresno, CA 93721

Dear Mr. Sanders:

Per our discussion this date, I am notifying you that the USDA, Agricultural Research Service vacated the facility located at 2021 South Peach Avenue, Fresno, CA 93727 on October 2001.

If you have any questions please call.

Sincerely,

Denise Chambers
Administrative Officer



Administration Office

9611 South Riverbend, Parlier, CA 93648

Voice: 559.596.2960 • E-mail: dchambers@fresno.ars.usda.gov

Agricultural Research - Investing in Your Future



Human Services System
Department Of Community Health
ENVIRONMENTAL HEALTH APPLICATION
 P O Box 11800, Fresno CA 93775-1800
 1221 Fulton Mall -- ☎ 559 445-3357

ORIGINAL

PLEASE PRINT OR TYPE

Business Name _____

Inspection Site Address _____

Date of Business Commencement _____ **Business Telephone** _____

Billing Address _____

Business Owner _____

Owner Address _____

Telephone _____

The Applicant hereby agrees to abide by all applicable Federal, State, and Fresno County statutes, laws, regulations, and the Fresno County Charter Ordinances and to pay all applicable Fresno County Environmental Health Permit and Inspection Fees, and late penalties, if any, which apply to the Permit which is being applied for here. PENALTIES FOR LATE PAYMENT ARE ASSESSED AT 10% PER MONTH OR FRACTION THEREOF. Notify Environmental Health of any change in the type of business activity, name, billing address, or ownership by calling 445-3357. Failure to notify Environmental Health may result in late penalties, Permit denial or revocation, and business closure. **PERMITS AND FEES ARE NOT TRANSFERABLE.**

Owner / Authorized Representative _____ Title _____ Date _____
 - DO NOT WRITE BELOW THIS LINE -

Record ID#	EE#	PE#	Fee/Activity Description	Billing Code	Fee
PROD 50237	187	2249	Closed Facility		0
PROD 32720	187	6398	Closed UST/Date Vault		0
PROD 41351	187	6710	Former Contaminated Site		0
PROD 51318	187	6706	Contaminated Site		0
PROD 50433	187	2260	EHS	Penalty Due	6
Penalty Calculation:				TOTAL AMOUNT DUE	

RETURN TO: Pam Date Left/Mailed/Taken In: _____ Taken In By: _____

- New Business Ownership Change Business Name Change Billing Address Change Other
- Close(inactive) Close(delete) Closure Date _____ Site Correction/Change Activity Change

Comments Business has moved from location change 2249 to 2249, 2760 inactive


Business Name USDA Research Service Owner USDA

Inspection Site 2021 S. Peach CT# 1406 City Code 05

FA# 170540 Approved By: P. Sanders EE# 185 Date 1-29-03

Supervisor Review fy 111 Envision updated by sa Date 2/10/03

Business Office Use _____ Envision Clerical Use _____



USDA ARS
2021 S PEACH AVE
FRESNO, CA 93727

Inquiry Number:
March 1, 2021

EDR Site Report™



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

The EDR-Site Report™ is a comprehensive presentation of government filings on a facility identified in a search of federal, state and local environmental databases.

Section 1: Facility Detail Reports Page 3

All available detailed information from databases where sites are identified.

Section 2: Databases and Update Information. Page 8

Name, source, update dates, contact phone number and description of each of the databases for this report.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

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SECTION 1: FACILITY DETAIL REPORTS

USDA ARS
2021 S PEACH AVE
FRESNO, CA 93727
EDR ID #1000187655

Databases:

ECHO: Enforcement & Compliance History Information
CUPA FRESNO: CUPA Resources List
FINDS: Facility Index System/Facility Registry System

ECHO:

Envid: 1000187655
Registry ID: 110002625641
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110002625641>
Name: USDA ARS
Address: 2021 S PEACH AVE
City,State,Zip: FRESNO, CA 93727

CUPA FRESNO:

Name: USDA AGRICULTURE RESEARCH SERVICE
Address: 2021 S PEACH
City,State,Zip: FRESNO, CA 93727
Region: FRESNO
Cross Street: Not reported
Facility ID: FA0170540
APM Number: 481020294
Program Element: UST REMOVAL/CLOSURE W/7 TANKS

Name: USDA AGRICULTURE RESEARCH SERVICE
Address: 2021 S PEACH
City,State,Zip: FRESNO, CA 93727
Region: FRESNO
Cross Street: Not reported
Facility ID: FA0170540
APM Number: 481020294
Program Element: FORMER CONTAMINATED SITE/NO FURTHER ACTION

Name: USDA AGRICULTURE RESEARCH SERVICE
Address: 2021 S PEACH
City,State,Zip: FRESNO, CA 93727
Region: FRESNO
Cross Street: Not reported
Facility ID: FA0170540
APM Number: 481020294
Program Element: HAZ MAT DISCLOSURE/CLOSED SITE

Name: USDA AGRICULTURE RESEARCH SERVICE
Address: 2021 S PEACH
City,State,Zip: FRESNO, CA 93727
Region: FRESNO
Cross Street: Not reported
Facility ID: FA0170540
APM Number: 481020294
Program Element: EXTREMELY HAZARDOUS SUBSTANCE HANDLER (EPCRA)

Name: USDA AGRICULTURE RESEARCH SERVICE
Address: 2021 S PEACH
City,State,Zip: FRESNO, CA 93727
Region: FRESNO
Cross Street: Not reported
Facility ID: FA0170540
APM Number: 481020294
Program Element: CONTAMINATED SITE - MISC/RWQCB LEAD

FINDS:

Registry ID: 110002625641
Name: USDA ARS
Address: 2021 S PEACH AVE
City,State,Zip: FRESNO, CA 93727

Click Here:

Environmental Interest/Information System:

FEDERAL FACILITY HAZARDOUS WASTE DOCKET
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required

SECTION 1: FACILITY DETAIL REPORTS

...Continued...

under RCRA.
SUPERFUND (NON-NPL)

Supplemental Address: Not reported
FIPS Code: 06019
Country Name: UNITED STATES
Federal Facility: Not reported
Federal Agency: Defense: Army
Tribal Land: Not reported
Tribal Name: Not reported
Congressional District: 21
Census: 060190014091008
Hydrologic Unit Code: 18030012
EPA Region: 09
Site Type: STATIONARY
Location Description: Not reported
Date Created: 01-MAR-00
Date Updated: 13-JUL-16
U.S-Mexico Border: Not reported
Information System Abbreviated Name: Not reported
Latitude: 36.724477
Longitude: -119.718444
Conveyor: FRS-GEOCODE
Horizontal Collection: ADDRESS MATCHING-HOUSE NUMBER
Horizontal Accuracy: 50
Reference Point: ENTRANCE POINT OF A FACILITY OR STATION
Horizontal Datum: NAD83
Coordinates Source: Not reported

Organization:
Registry ID: 110002625641
Program System Name: RCRAINFO
Program System ID: CA7120090397
Env. Interest Type: SQG
Contact Type: OWNER
Start Date: Not reported
End Date: Not reported
Organization Name: UNITED STATES OF AMERICA
Organization Type: PRIVATE
Duns Number: Not reported
Division Name: Not reported
Phone Number: 415-555-1212
Alternate Phone Number: Not reported
Fax Number: Not reported
Email: Not reported
EIN: Not reported
State Business ID: Not reported
Parent Name: Not reported
Standard Parent Name: Not reported
Parent Duns Number: Not reported
Mailing Address: NOT REQUIRED
Supplemental Address: Not reported
City: NOT REQUIRED
State: Not reported
Zip: 99999
Country: USA

Alternate Name:
Registry ID: 110002625641
Information System Abbreviated Name: RCRAINFO
Program System ID: CA7120090397
Alternative Name: USDA ARS
Alternative Name Type: PROGRAM NAME

Registry ID: 110002625641
Information System Abbreviated Name: FFDOCKET
Program System ID: CA7120090397
Alternative Name: FRESNO HORTICULTURAL FIELD STATION.
Alternative Name Type: PROGRAM NAME

Contact:
Registry ID: 110002625641
Program System Name: RCRAINFO
Program System ID: CA7120090397
Env. Interest Type: SQG
Contact Type: REGULATORY CONTACT
Start Date: Not reported
End Date: Not reported
Contact Name: ENVIRONMENTAL MANAGER
Contact Title: Not reported
Contact Telephone: 209-487-5351
Contact Alternate Telephone: Not reported
Contact Fax: Not reported
Contact Email: Not reported
Mailing Address: Not reported

SECTION 1: FACILITY DETAIL REPORTS

...Continued...

Supplemental Address: Not reported
Mailing City: Not reported
Mailing State Code: Not reported
Mailing State: Not reported
Mailing Zip: Not reported
Mailing Country: Not reported

Registry ID: 110002625641
Program System Name: RCRAINFO
Program System ID: CA7120090397
Env. Interest Type: SQG
Contact Type: REGULATORY CONTACT
Start Date: Not reported
End Date: Not reported
Contact Name: ENVIRONMENTAL MANAGER
Contact Title: Not reported
Contact Telephone: 209-487-5351
Contact Alternate Telephone: Not reported
Contact Fax: Not reported
Contact Email: Not reported
Mailing Address: 2021 S PEACH AVE
Supplemental Address: Not reported
Mailing City: FRESNO
Mailing State Code: CA
Mailing State: Not reported
Mailing Zip: 93727
Mailing Country: UNITED STATES

Interest:

Registry ID: 110002625641
Program System Name: FFDOCKET
Program System ID: CA7120090397
Env. Interest Type: FEDERAL FACILITY HAZARDOUS WASTE DOCKET
Federal ST Code: FEDERAL
Start Date: Not reported
Start Date Qualifier: Not reported
End Date: Not reported
End Date Qualifier: Not reported
Data Source: FFDOCKET
Last Reported: 13-JUL-16
Date Created: 16-SEP-15
Date Updated: 13-JUL-16
Active Status: Not reported

Registry ID: 110002625641
Program System Name: SEMS
Program System ID: CA7120090397
Env. Interest Type: SUPERFUND (NON-NPL)
Federal ST Code: FEDERAL
Start Date: Not reported
Start Date Qualifier: Not reported
End Date: Not reported
End Date Qualifier: Not reported
Data Source: SEMS
Last Reported: Not reported
Date Created: 03-AUG-20
Date Updated: Not reported
Active Status: NOT ON THE NPL

Registry ID: 110002625641
Program System Name: RCRAINFO
Program System ID: CA7120090397
Env. Interest Type: SQG
Federal ST Code: FEDERAL
Start Date: 01-JUL-87
Start Date Qualifier: FIRST NOTIFICATION DATE
End Date: Not reported
End Date Qualifier: Not reported
Data Source: RCRAINFO
Last Reported: Not reported
Date Created: 15-MAY-01
Date Updated: 09-MAY-12
Active Status: Y

Mailing Information:

Registry ID: 110002625641
Program System Name: RCRAINFO
Program System ID: CA7120090397
Supplemental Interest: SQG
Contact Type: FACILITY MAILING ADDRESS
Start Date: Not reported
End Date: Not reported
Mailing Address: 2021 S PEACH AVE
Supplemental Address: Not reported

SECTION 1: FACILITY DETAIL REPORTS

...Continued...

Contact City: FRESNO
Contact State Code: CA
Contact State: Not reported
Contact Zip: 93727
Contact Country: UNITED STATES

Program:
Legislative District Number: Not reported
HUC Code 8: Not reported
HUC Code 12: Not reported
Data Quality Code: V
Std Name: USDA ARS
Std House Number: 2021
Std Street Name: S PEACH AVE
Std Base Name: PEACH
Std Prefix: S
Std Suffix: Not reported
Std Stype Before: Not reported
Std Stype After: AVE
Std Postal Code: 93727
Std City Name: FRESNO
Std County Name: FRESNO COUNTY
Std State Code: CA
Std County FIPS: 06019
Std Country: US
Std Full Address: 2021 S PEACH AVE, FRESNO, CA 93727 US
Address Type: Not reported
Link Method: NAME ADDRESS
Location Description: Not reported
User ID: REFRESH
Sensitive Ind: N
User Comment: Not reported
Public Ind: Y
Date Refresh: 08-AUG-10
Small Bus Ind: Not reported
Env Justice Code: Not reported
Parent Program System ID: Not reported
Stand Alone Flag: Not reported

Legislative District Number: Not reported
HUC Code 8: Not reported
HUC Code 12: Not reported
Data Quality Code: mO
Std Name: FRESNO HORTL FLD STA
Std House Number: 2021
Std Street Name: S PEACH AVE
Std Base Name: PEACH
Std Prefix: S
Std Suffix: Not reported
Std Stype Before: Not reported
Std Stype After: AVE
Std Postal Code: 93727
Std City Name: FRESNO
Std County Name: FRESNO COUNTY
Std State Code: CA
Std County FIPS: 06019
Std Country: US
Std Full Address: 2021 S PEACH AVE, FRESNO, CA 93727 US
Address Type: Not reported
Link Method: Not reported
Location Description: Not reported
User ID: JAMES_CHILTON
Sensitive Ind: N
User Comment: Not reported
Public Ind: Y
Date Refresh: 09-NOV-16
Small Bus Ind: Not reported
Env Justice Code: Not reported
Parent Program System ID: Not reported
Stand Alone Flag: Not reported

Legislative District Number: Not reported
HUC Code 8: Not reported
HUC Code 12: Not reported
Data Quality Code: V
Std Name: USDA ARS
Std House Number: 2021
Std Street Name: S PEACH AVE
Std Base Name: PEACH
Std Prefix: S
Std Suffix: Not reported
Std Stype Before: Not reported
Std Stype After: AVE
Std Postal Code: 93727

SECTION 1: FACILITY DETAIL REPORTS

...Continued...

Std City Name:	FRESNO
Std County Name:	FRESNO COUNTY
Std State Code:	CA
Std County FIPS:	06019
Std Country:	US
Std Full Address:	2021 S PEACH AVE, FRESNO, CA 93727 US
Address Type:	Not reported
Link Method:	Not reported
Location Description:	Not reported
User ID:	REFRESH
Sensitive Ind:	N
User Comment:	Not reported
Public Ind:	Y
Date Refresh:	03-AUG-20
Small Bus Ind:	Not reported
Env Justice Code:	Not reported
Parent Program System ID:	Not reported
Stand Alone Flag:	Not reported

SECTION 2: DATABASES AND UPDATE DATES

To maintain currency of the following federal, state and local databases, EDR contacts the appropriate government agency on a monthly or quarterly basis as required.

Elapsed ASTM days: Provides confirmation that this report meets or exceeds the 90-day updating requirement of the ASTM standard.

DATABASES FOUND IN THIS REPORT

ECHO: Enforcement & Compliance History Information

Source: Environmental Protection Agency

Telephone: 202-564-2280

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 10/03/2020

Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/08/2021

Date of Next Scheduled Update: 04/19/2021

CA CUPA: CUPA Resources List

Source: Please see county level database for agency information.

Telephone: Not reported

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: Not reported

Database Release Frequency: Varies

Date of Last EDR Contact: Not reported

Date of Next Scheduled Update: Not reported

CA CUPA FRESNO: CUPA Resources List

Source: Dept. of Community Health

Telephone: 559-445-3271

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/02/2020

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/15/2021

Date of Next Scheduled Update: 04/12/2021

FINDS: Facility Index System/Facility Registry System

Source: EPA

Telephone: Not reported

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/04/2020

Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/01/2020

Date of Next Scheduled Update: 03/15/2021



Human Services System
Department Of Community Health
ENVIRONMENTAL HEALTH APPLICATION
 P O Box 11800, Fresno CA 93775-1800
 1221 Fulton Mall -- ☎ 559 445-3357

PLEASE PRINT OR TYPE

Business Name STEVE PILIBOS RESIDENCE
 Inspection Site Address 1919 S. WILLOW AVE
FRESNO, CA 93727
 Date of Business Commencement 7/2/01 Business Telephone /
 Billing Address SAME AS ABOVE

Business Owner STEVE PILIBOS
 Owner Address 1919 S. WILLOW AVE
FRESNO, CA 93727 Telephone /

The Applicant hereby agrees to abide by all applicable Federal, State, and Fresno County statutes, laws, regulations, and the Fresno County Charter Ordinances and to pay all applicable Fresno County Environmental Health Permit and Inspection Fees, and late penalties, if any, which apply to the Permit which is being applied for here. PENALTIES FOR LATE PAYMENT ARE ASSESSED AT 10% PER MONTH OR FRACTION THEREOF. Notify Environmental Health of any change in the type of business activity, name, billing address, or ownership by calling 445-3357. Failure to notify Environmental Health may result in late penalties, Permit denial or revocation, and business closure. PERMITS AND FEES ARE NOT TRANSFERABLE.

[Signature] Owner / Authorized Representative Title CONTRACTOR Date 7/2/01
 - DO NOT WRITE BELOW THIS LINE -

Record ID#	EE#	PE#	Fee/Activity Description	Billing Code	Fee
PRO055310202	0124	6302	REMOVAL W/2 TANKS		\$ 316-00
	0202	6502	STATE USE SURCHARGE #8/TANK		\$ 18-00
	0202	6503	STATE OVERSIGHT SURCHARGE		\$ 10-00

Penalty Calculation: Penalty Due
 TOTAL AMOUNT DUE \$ 342-00

RETURN TO: GUS G. Date Left/Mailed/Taken In: Taken In By: Hank

New Business Ownership Change Business Name Change Billing Address Change Other
 Close(inactive) Close(delete) Closure Date 7/2/01 Site Correction/Change Activity Change

Comments NEW - FARM AND REMOVAL OF TANKS.

Business Name Owner

Inspection Site CT# 14-05 City Code 16

FA# 0275101 Approved By: G. GOMEZ EE# 0124 Date 7/19/01

Supervisor Review VM 7/19/01 ✓ ✓ ✓ Envision updated by [Signature] Date 10/22/01

Business Office Use Paid 7/2/01 Envision Clerical Use A/R #0018412

29768
29769

31600
2600



Human Services System
Department of Community Health
Gary M. Carozza, Director

Adult Services Department
Children & Family Services Department
Employment & Temporary Assistance Department

August 13, 2001

Steve Pilibos
Pilibos Residence
1919 S. Willow
Fresno, CA 93727


Dear Mr. Pilibos:

SUBJECT: Underground Storage Tank Abandonment Completion
LOCATION: 1919 S. Willow, Fresno, CA 93727

This letter confirms the permanent closure of underground storage tanks at the above site as required by the California Code of Regulations, Title 23, Article 7. The closure occurred on July 16, 2001, with the removal of two (2) underground storage tanks. With the provision that the information provided to this office is accurate and representative of existing conditions, no further action is required at this time. The site should now be properly closed, including backfilling as necessary.

This letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present, or future operations at the site. Nor, does it relieve you of the responsibility to clean up existing, additional, or previously unidentified conditions at the site which cause or threaten to cause pollution, or nuisance, or otherwise pose a threat to water quality or public health. If you have any questions regarding this matter please call me at (559) 445-3271.

Sincerely,


Ted Pearcy, R.E.H.S.
Environmental Health Analyst II
Environmental Health System

TRP/sja

FAX

OIL CONSERVATION SERVICE, INC.
3256 NORTH MARKS AVENUE
FRESNO, CA 93722-4919
PHONE 559-485-5495
FAX 559-485-5497

From: Don T. Hartshorn
Date: August 10, 2001

To: Mr. Ted Plearcy

Company: County of Fresno / Environmental Health
Phone: 559-445-3271
Fax: 559-445-3301

Pages: 2

Re: Manifest for Mr. Steve Pilibos

Comments:

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

20664859
IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7350
GENERATOR
FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAAC00237821564859		Manifest Document No. 1 of 1		2. Page 1		Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address MR. STEVE PILIBOS 1919 S. WILLOW AVE., FRESNO, CA. 93727						A. State Manifest Document Number 20664859					
4. Generator's Phone () (559)268-0101						B. State Generator's ID					
5. Transporter 1 Company Name Oil Conservation Service Inc.						6. US EPA ID Number CAD980673842					
7. Transporter 2 Company Name						8. US EPA ID Number					
9. Designated Facility Name and Site Address DeMenno / Kerdoon 2000 N Alameda St, Compton, CA 90222-2799						10. US EPA ID Number CAT080013352					
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) Non RCRA Hazardous Waste Liquid, No Placards Required						12. Containers No. Type 001 TT		13. Total Quantity 0/0/35		14. Unit Wt/Vol G	
b.						I. Waste Number State 223 EPA/Other NON RCRA		State		EPA/Other	
c.						State		EPA/Other		State	
d.						State		EPA/Other		State	
J. Additional Descriptions for Materials Listed Above oil water						K. Handling Codes for Wastes Listed Above a. R 01 b. c. d.					
15. Special Handling Instructions and Additional Information Invoice # 24751 Wear gloves & goggles						Emergency Response Contact : 24 Hours Don Hartshorn (559)930-7557					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.											
Printed/Typed Name JIM WILLIAMS				Signature <i>[Signature]</i>				Month Day Year 07/16/01			
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name RALPH OTEIRO				Signature <i>[Signature]</i>				Month Day Year 07/16/01			
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature				Month Day Year			
19. Discrepancy Indication Space											
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name				Signature				Month Day Year			

DO NOT WRITE BELOW THIS LINE.

Ted Pearcy

THE
TWINING
LABORATORIES, INC.

LETTER OF TRANSMITTAL

RECEIVED

AUG 08 2001

2527 Fresno Street, Fresno, California 93721
Ph. (209) 268-7021, FAX (209) 268-7126

Department of Community Health
Environmental Health System

To: Fresno County Human Services System P. O. Box 11867 Fresno, Ca. 93775	Date: July 27, 2001
Attn: Ted Pearcy	RE: Pilibos Brothers 1919 South Willow Avenue Fresno, California

We are sending you the following items:

Attached Under Separate Cover Via

Copies: 1
Date: July 27, 2001
TL No.: A670R6.01
Description: Underground Storage Tank Removal Report

These are Transmitted:

For Approval For Your Use As Requested

Remarks:

Dear Mr. Pearcy:

The attached report is forwarded at the request of our client, Statewide Excavation, Inc. If you have any questions, please feel free to call our office at (209) 268-7021.

Respectfully,

Keith Mayes
Keith Mayes
Project Geologist

Copy To: File



July 27, 2001

A670R6.01

RECEIVED

AUG 08 2001

Department of Community Health
Environmental Health System

Mr. Jim Williams
Statewide Excavation, Inc.
5408 East Jensen Avenue
Fresno, California 93725

Subject: **Soil Sample Analyses for Underground Storage Tank Removal**

Project: **Pilibos Brothers
1919 South Willow Avenue
Fresno, California**

Dear Mr. Williams:

This report summarizes the field observations and analytical results of soil samples collected during the removal of two underground storage tanks (USTs) at the above-referenced project site.

AUTHORIZATION

Services provided by The Twining Laboratories, Inc. (Twining) were authorized by Mr. Jim Williams, Statewide Excavation, Inc. in a telephone conversation with Mr. Walt Plachta of Twining on July 2, 2001.

OBSERVATION AND SAMPLING PROCEDURES

Two USTs were removed from the project site on July 16, 2001. Upon removal, the depth to the base below site grade (BSG) was measured and recorded. The physical dimensions of the UST were measured and are summarized in Table 1. The UST was observed for oxidation, discoloration, holes, and other distinguishing physical characteristics. Soils within the UST excavation were observed for discoloration and the presence of petroleum product odors.

The soil samples recovered from beneath the former locations of the USTs were collected by driving a precleaned stainless steel sleeve into soil retrieved by a excavator recovered from approximately 3 feet below the UST bottom. Soil sample locations and depths were specified by the Fresno County Human Services System's (FCHSS's) on-site representative, Mr. Ted Picarcy. Drawing 1 shows a site plan with the approximate former location of the USTs and the soil sample locations.

After the soil samples were collected, the ends of the sleeves were covered with Teflon® tape and secured with plastic end caps. The sleeve was labeled and placed in a cooled ice chest for shipment to Twining's state-certified analytical laboratory under a custody seal. Chain-of-custody documentation and a site plan showing the soil sample location are attached.

ANALYTICAL PROCEDURES

The soil samples collected beneath the gasoline UST were analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl tertiary-butyl ether (MTBE) using the United States Environmental Protection Agency's (U. S. EPA's) Method 8021, and for total petroleum hydrocarbons-gasoline range (TPH-G) constituents using the Gas Chromatography/Flame Ionization detection method (GC/FID). Soil samples collected beneath the reported un-used UST were analyzed for BTEX using U.S. EPA Method 8021 and for total petroleum hydrocarbons-diesel range constituents (TPH-D) using the GC/FID method. Sample analytical methods were consistent with the standards of practice for UST removals and as specified by the FCHSS's representative on site at the time of the UST removal.

SUMMARY OF OBSERVATIONS AND ANALYTICAL RESULTS

The contents of tanks (as reported to Twining by a representative of the property owner), tank capacity, and observations made by Twining at the time of removal are summarized in Table 1.

UST Number ¹	UST Contents	Diameter feet	Length feet	Rated Capacity ²	Depth feet ³	Observed Condition of Tank and Excavation
6602	Unknown (reported as not used)	8	24	8,000	11	No staining or pitting observed, no petroleum odor present
6603	Gasoline	7.5	20	6,000	11	No staining or pitting observed, no petroleum odor present

- UST = underground storage tank
- NM = not measured
- 1 = number assigned by FCHSS
- 2 = approximate
- 3 = approximate depth of bottom of tank below site grade

Soil sample analytical results are summarized in Tables 2. Laboratory reports of analyses are attached.

TABLE 2 Summary of Analytical Results, Soil Samples 1919 South Willow Avenue, Fresno, California UST Removal Action, July 16, 2001								
Sample Number and Depth (FBSG)	Location	Analytical Results in milligrams per kilogram (mg/kg)						
		Benzene	Toluene	Ethyl-Benzene	Xylenes	MTBE	TPH-G	TPH-D
S1-14	UST 6602	ND	ND	ND	ND	NA	NA	ND
S2-14	UST 6602/6603	ND	ND	ND	ND	ND	ND	ND
S3-14	UST 6603	ND	ND	ND	ND	ND	ND	NA

NOTES:

- MTBE = methyl tertiary butyl-ether
- TPH-G = total petroleum hydrocarbons - gasoline range constituents
- TPH-D = total petroleum hydrocarbons - diesel range constituents
- NA = not analyzed
- ND = not detected at or above the detection limit

Note: Detection limits are included on the attached laboratory analytical report

LIMITATIONS

Twining was responsible only for soil sampling at the site and chemical testing of the soil samples collected in the field. Soil sample locations and scope of chemical analyses were based on the standard of practice for UST removal actions and the requirements of the FCHSS at the time of the work.

No investigation is thorough enough to exclude the presence of hazardous materials at a given site. If hazardous conditions have not been identified during the assessment, such a finding should not therefore be construed as a guarantee of the absence of such materials on the site, but rather as the result of the services performed within the scope, limitations and cost of the work performed. This report completes the scope of Twining's services for this site.

This work was performed to the standard of practice for environmental consultants in Fresno County at the time the work was performed, no other warranty, expressed or implied is made.

Statewide Excavation, Inc.
July 27, 2001

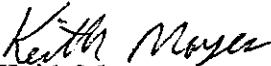
A670R6.01
Page 4


CLOSING

Consistent with your standing directions, a copy of this report will be forwarded to the FCHSS. Twining appreciates the opportunity to assist you on this project. If you have questions regarding this report, please contact Twining at (559) 268-7021.

Sincerely,

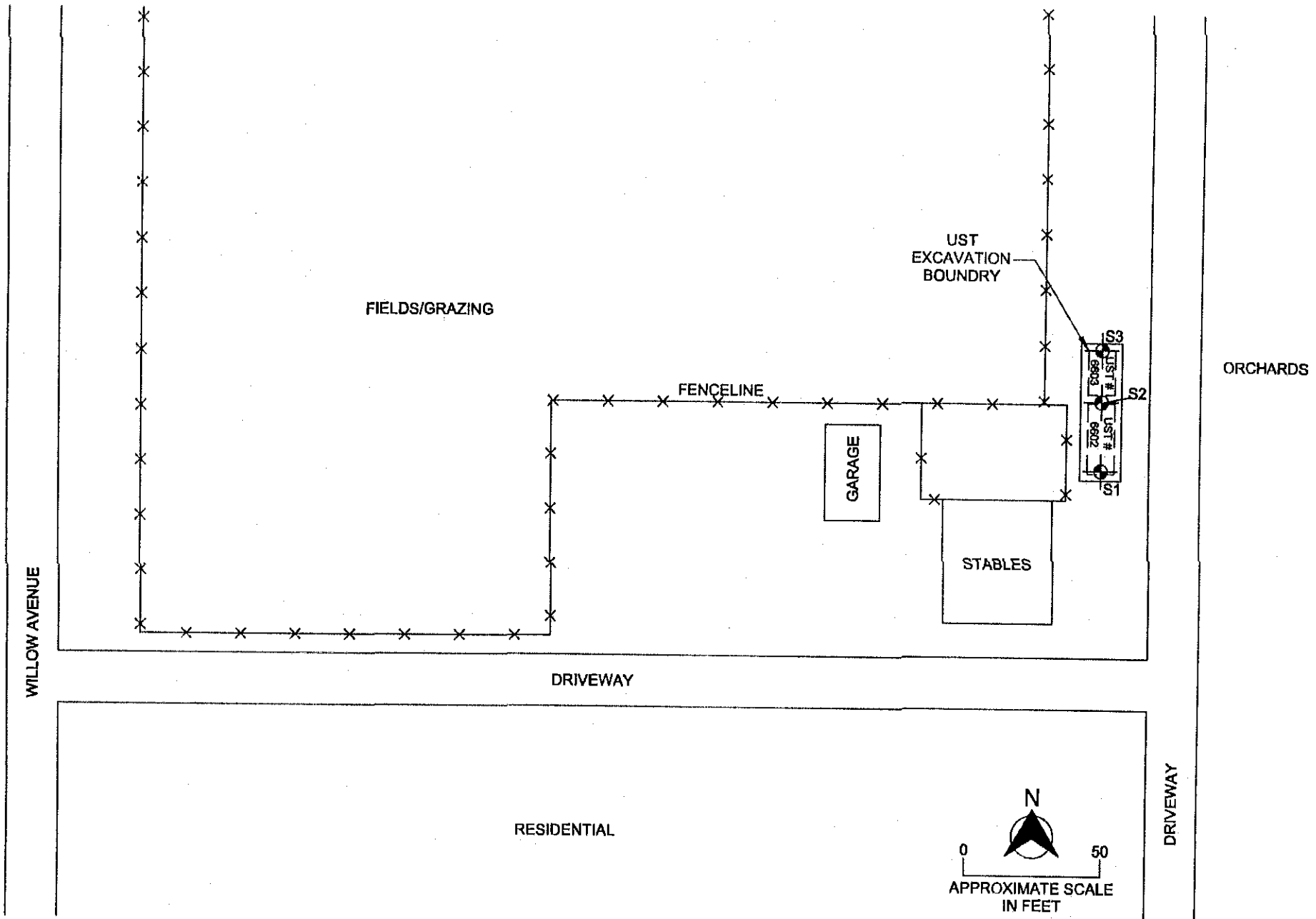
THE TWINING LABORATORIES, INC.
Environmental Services Division


Keith Mayes
Project Geologist

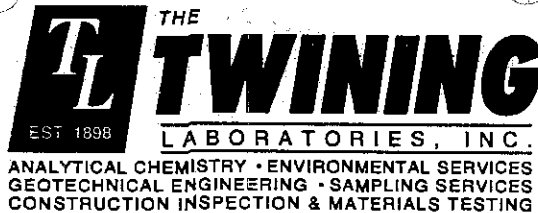

Walt Plachta, RG #6626, REA-II #20070
Division Manager
F:\HOME\Keithm\UST\Statewide\A670R6_01.wpd

Attachments: Chain-of-Custody Documentation and Laboratory Report of Analyses:
701-3318.1-3
Drawing 1.

CC: Fresno County Human Service System, P. O. Box 11867, Fresno, CA 93775
Attn: Mr. Ted Pearcy



UNDERGROUND STORAGE TANK REMOVAL ACTION JULY 18, 2001 1919 SOUTH WILLOW AVENUE FRESNO, CALIFORNIA	FILE NO. 670R6-01	DATE DRAWN: 07/18/01	
	DRAWN BY: WME	APPROVED BY:	
	PROJECT NO. A670R6.01	DRAWING NO. 1	



PROJECT COVER SHEET

REPORT DATE : July 24, 2001
LABORATORY ID : 701-3318.1-3

INVOICE# 70103318
PROJECT MANAGER: KEITH MAYES

ATTENTION : JIM WILLIAMS
CLIENT STATEWIDE EXCAVATION
5408 EAST JENSEN AVE.
FRESNO CA 93725

PROJECT INFO : 1919 S. WILLOW, FRESNO CA
PROJECT# : A670R6.01

The Twining Laboratories is accredited by the State of California Department of Health Services for the analysis of Drinking Water, Wastewater and Hazardous Waste under Certificate No. 1371.

In accordance with your instructions, the samples submitted were analyzed for the components specified. The analytical results are enclosed on the following pages.

Please contact us if you have any questions concerning the analyses or results. Thank you for letting us serve you.

rs 1c: ESD

William E. Elliott
Laboratory Director

Rev. 1 8/94 (COVER)

CORPORATE OFFICE

2527 Fresno Street
Fresno, CA 93721-1804
(559) 268-7021 • Fax 268-7126

MODESTO

4230 Kiernan Ave., #105
Modesto, CA 95256-9322
(209) 545-1050 • Fax 545-1147

VISALIA

130 North Kaisey St., #H6
Visalia, CA 93291-9000
(559) 651-8280 • Fax 651-8288

BAKERSFIELD

3701 Pegasus Drive, #124
Bakersfield, CA 93308-6843
(661) 393-5088 • Fax 393-4643

MONTEREY

4 Justin Court Suite D
Monterey, CA 93940
(831) 333-1180 • Fax 333-1182

REPORT DATE : July 24, 2001
LABORATORY ID : 701-3318.1

THE TWINING LABORATORIES, INC.
PAGE 1 of 3

DATE SAMPLED : 07/16/01 at 1115 by K. Mayes
DATE RECEIVED : 07/16/01 at 1340 from K. Mayes

CLIENT : STATEWIDE EXCAVATION

ANALYZED BY : A. Slivkoff, B. Beckham
REVIEWED BY : G. Rodrigo

DATE PREPARED : 07/16/01 through 07/24/01
DATE ANALYZED : 07/16/01 through 07/24/01

SAMPLE TYPE : Soil

CLIENT SAMPLE ID : S1-14

CONSTITUENT	RESULTS (mg/kg)	DLR (mg/kg)	METHOD
Benzene	ND	0.005	8021
Toluene	ND	0.005	8021
Ethylbenzene	ND	0.005	8021
Xylenes	ND	0.005	8021
Total Petroleum Hydrocarbons- Diesel Range	ND	10	GC/FID

Preparation (BTEX & TPH-Gasoline): 5030
TPH: Total Petroleum Hydrocarbons
mg/Kg: Milligrams per kilogram (ppm)

REPORT DATE : July 24, 2001
LABORATORY ID : 701-3318.2

THE TWINING LABORATORIES, INC.
PAGE 2 of 3

DATE SAMPLED : 07/16/01 at 1120 by K. Mayes
DATE RECEIVED : 07/16/01 at 1340 from K. Mayes

CLIENT : STATEWIDE EXCAVATION

ANALYZED BY : A. Slivkoff, B. Beckham
REVIEWED BY : G. Rodrigo

DATE PREPARED : 07/16/01 through 07/24/01
DATE ANALYZED : 07/16/01 through 07/24/01

SAMPLE TYPE : Soil

CLIENT SAMPLE ID : S2-14

CONSTITUENT	RESULTS (mg/kg)	DLR (mg/kg)	METHOD
Benzene	ND	0.005	8021
Toluene	ND	0.005	8021
Ethylbenzene	ND	0.005	8021
Xylenes	ND	0.005	8021
Methyl tert-Butyl Ether (MTBE)	ND	0.05	8021
Total Petroleum Hydrocarbons- Gasoline Range	ND	1.0	GC/FID
Total Petroleum Hydrocarbons- Diesel Range	ND	10	GC/FID

Preparation (BTEX & TPH-Gasoline): 5030
TPH: Total Petroleum Hydrocarbons
mg/Kg: Milligrams per kilogram (ppm)

Rev. 3_5/96 (BTEXSOI)

REPORT DATE : July 24, 2001
LABORATORY ID : 701-3318.3

THE TWINING LABORATORIES, INC.
PAGE 3 of 3

DATE SAMPLED : 07/16/01 at 1130 by K. Mayes
DATE RECEIVED : 07/16/01 at 1340 from K. Mayes

CLIENT : STATEWIDE EXCAVATION

ANALYZED BY : A. Slivkoff, B. Beckham
REVIEWED BY : G. Rodrigo

DATE PREPARED : 07/16/01 through 07/24/01
DATE ANALYZED : 07/16/01 through 07/24/01

SAMPLE TYPE : Soil

CLIENT SAMPLE ID : S3-14

CONSTITUENT	RESULTS (mg/kg)	DLR (mg/kg)	METHOD
Benzene	ND	0.005	8021
Toluene	ND	0.005	8021
Ethylbenzene	ND	0.005	8021
Xylenes	ND	0.005	8021
Methyl tert-Butyl Ether (MTBE)	ND	0.05	8021
Total Petroleum Hydrocarbons- Gasoline Range	ND	1.0	GC/FID

Preparation (BTEX & TPH-Gasoline): 5030
TPH: Total Petroleum Hydrocarbons
mg/Kg: Milligrams per kilogram (ppm)

Rev. 3_5/96 (BTEXSOI)

**LABORATORY CONTROL SAMPLE
QUALITY CONTROL REPORT**
for
Hydrocarbons

Analyzed by: A. Slivkoff

Reviewed by: G. Rodrigo

Sample Matrix: Soil

Spiked Sample ID: Spiking Soil

Twining Laboratories, Inc. Examination Number: 701-3318.1-3

Constituent	Method Blank Result (mg/kg)	LCS Expected Conc. (mg/kg)	LCS Result (mg/kg)	LCS Dup. Result (mg/kg)	LCS % Rec	LCS Dup. % Rec.	RPD %
Benzene	ND	0.05	0.051	0.052	102	104	1.9
Toluene	ND	0.05	0.052	0.051	104	102	1.9
Ethylbenzene	ND	0.05	0.050	0.050	100	100	0
Xylenes	ND	0.15	0.147	0.149	98.0	99.3	1.4
TPH-Gasoline Range	ND	2.5	2.33	2.37	93.2	94.8	1.7
MTBE	ND	0.25	0.243	0.262	97.2	105	7.5

EXPLANATIONS:

Method Blank:

The method blank is used to determine if method analytes or other interferences are present in the laboratory environment, the reagents or apparatus.

Laboratory Control Sample(LCS):

A laboratory control sample is generated by spiking the analyte into a relatively inert matrix (clean sand or blank water). The laboratory control sample is analyzed exactly like a sample, and its purpose is to determine whether the methodology is in control and whether the laboratory is capable of making accurate and precise measurements.

RPD:

Relative Percent Difference.

ND:

None Detected

Dup:

Duplicate

TPH:

Total Petroleum Hydrocarbons

mg/kg:

milligrams per kilogram (parts per million)



TOTAL PETROLEUM HYDROCARBON: Diesel
EPA METHOD 8015
LABORATORY CONTROL SPIKE
QUALITY CONTROL REPORT

Analyzed By: Bill Beckham

Date of Extraction: 07/16/2001

Twining Laboratories, Inc. Run ID Number: 1TPH027

Reviewed By: G. Rodrigo

Date of Analysis: 07/24/01

Sample Matrix: Soil

Spike ID: WS 13

Constituent	Method Blank Concentration (mg/kg)	Laboratory Control Spike Concentration Level (mg/kg)	Laboratory Control Spike Recovery (mg/kg)	Laboratory Control Spike Duplicate Recovery (mg/kg)	Acceptable Percent Recovery Range (%)		Laboratory Control Spike Percent Recovery (%)	Laboratory Control Spike Duplicate Percent Recovery (%)	Relative Percent Difference (%)
					Low	High			
TPH: Diesel	0	25.0	23.7	23.6	70%	130%	94.6%	94.5%	0.17%

EXPLANATIONS:

ND

mg/kg

Method Blank:

Laboratory Control Spike:

Non-Detectable; the target analyte was not found above the detectable limit for reporting purposes (DLR).

milligrams per kilograms, parts per million (ppm) concentration units.

The method blank is used to determine if method analytes or other interferences are present in the laboratory environment, the reagents or equipment.

A laboratory control spike is generated by adding the target analyte(s) into a relatively inert matrix (sodium sulfate or distilled water). The laboratory control sample is analyzed exactly like a sample, and its purpose is to determine whether the methodology is controlled and the laboratory is capable of making precise and accurate measurements.

SUBMITTER INFORMATION:		SEND INVOICE TO:		RESULTS RELEASED TO:	
REPORT TO:	<u>Statewide Excavation</u>	ADDRESS:	<u>ESD Twining</u>	ADDRESS:	<u>ESD Twining</u>
ADDRESS:	<u>5408 East Jensen Ave Fresno Ca 93725</u>	ATTENTION:		ATTENTION:	
ATTENTION:	<u>Jim Williams</u>	PH ()		PH ()	
PH (559)	<u>227-8537</u>	FAX ()		FAX ()	
FAX ()	<u>497-6345</u>	CONTRACT # OR P.O.			

BACTERIOLOGICAL SAMPLE SOURCE	SAMPLE STATUS
<input type="checkbox"/> PUBLIC SYSTEM	<input type="checkbox"/> ROUTINE
<input type="checkbox"/> PRIVATE WELL	<input type="checkbox"/> REPEAT
<input type="checkbox"/> SURFACE WATER	<input type="checkbox"/> OTHER
<input type="checkbox"/> CONSTRUCTION <input type="checkbox"/> OTHER	

REPORTS FOR:

COUNTY: FRESNO KINGS MADERA MERCED TULARE

STATE DEPT. OF HEALTH SERVICES OTHER:

SAMPLE INFORMATION:

SAMPLE BY (PRINT NAME): Keith Mayes

SIGNATURE: Keith Mayes

ROUTINE ANALYSIS 5 days statewide

RUSH ANALYSIS, RESULTS NEEDED BY:

PROJECT:

SITE: 1919 S. Willow, Fresno, CA

PROJECT #: A670 R6.01

PROJECT MANAGER: Keith Mayes

KEY FOR CHEMICAL ANALYSIS SAMPLE TYPE

BS - Biosolids GW - Ground Water SL - Soil/Solid
 DW - Drinking Water SF - Surface Water ST - Storm Water
 WW - Waste Water

LAB USE - BOTTLES	ANALYSIS REQUESTED																			
	TPH-G	BTEX	MIBF	TPH-D	ATEX															
1																				
2																				
3																				

LAB USE - BOTTLES	SAMPLE ID	SAMPLE		
		DATE	TIME	TYPE
1	<u>S1-14</u>	<u>7-16-01</u>	<u>1105</u>	<u>SL</u>
2	<u>S2-14</u>	<u>1</u>	<u>1120</u>	<u>1</u>
3	<u>S3-14</u>	<u>1</u>	<u>1130</u>	<u>1</u>

COMMENTS:

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY
<u>Keith Mayes</u>	<u>TL</u>	<u>7-16-01</u>	<u>1340</u>	<u>[Signature]</u>	<u>TL</u>

STEPHEN INVESTMENTS, INC.

*General Contractors
Developers*

GARDEN COURT BUILDING
241 TUOLUMNE SUITE A
FRESNO, CALIFORNIA 93721
Y. STEPHEN PILIBOS, PRESIDENT

July 16,2001

Fresno County Department of Environmental Health
Att: Ted Piercy
Re: Tank #6602 & #6603

The letter is to verify that tank #6602, (8,000 gal. tank) is being delivered from 1919 S. Willow, Fresno to 3580 S. Newcomb Ave., Mendota on 7-16-01. Tank #6603 (6,000 gal. tank) will be delivered on 7-17-01 to the same address above. The tanks will be used for storage for above ground fuel.

CC: Nadeen
Ted Piercy
Jim Williams
Jesse

Sincerely,
Jesse Urbanek

Jesse Urbanek
Pilibos Ranch Manager

1919 S. Willow
Fresno, CA

UNDERGROUND STORAGE TANK ABANDONMENT INSPECTION REPORT

FRESNO COUNTY COMMUNITY HEALTH DEPARTMENT-ENVIRONMENTAL HEALTH SYSTEM
 Post Office Box 11867, Fresno, California 93775
 1221 Fulton Mall--(209)445-3271

10-1135

Site Information		Date <u>July 16, 2001</u>
Facility <u>Philibus Residence</u>	PR# <u>0055736</u>	C.T. <u>14.05</u>
Address <u>1919 S. Willow</u>	City <u>Fresno</u>	Zip _____

Tank Information	Abandonment in place _____	Removal <input checked="" type="checkbox"/>
Tank#/size: 1. <u>660218K</u> 2. <u>66031^{6K}N/A</u> 3. _____ 4. _____ 5. _____ 6. _____		

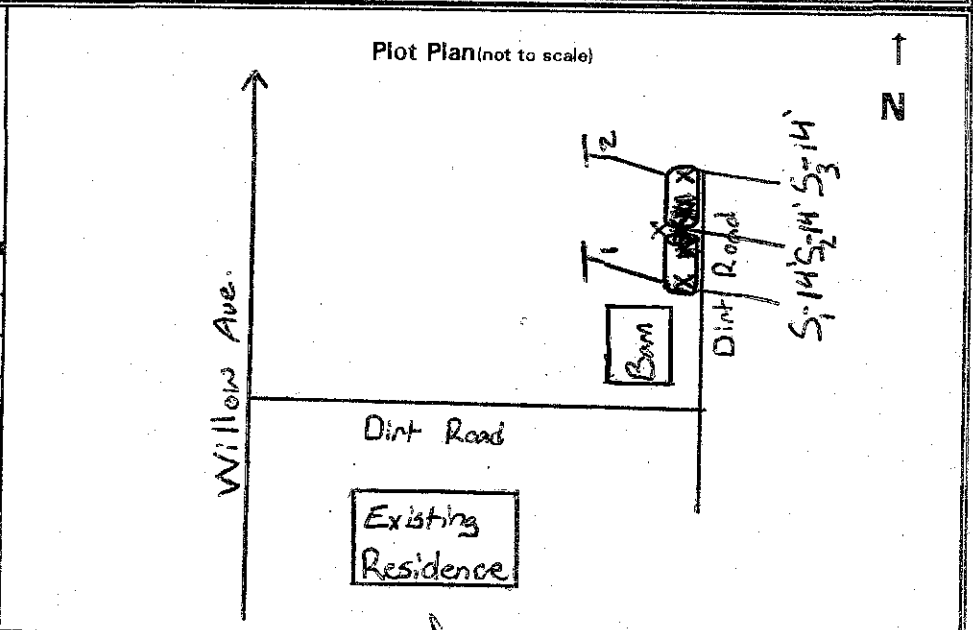
Inspection Information	Y/N	Inspection Information	Y/N
Tank(s) completely emptied	Y	Groundwater/Product in excavation(circle one)	N
Tank(s) cleaned and waste manifested	Y	Approved abandonment in place	N/A
Tank(s) properly purged/LEL below 5%	Y	A & B forms completed and submitted	Y
All piping removed	Y	Samples taken by: <u>Twinning Laboratories</u>	

Soil discoloration and its location(s): No Soil Discoloration Keith Mayes

Tank condition(describe): No Rust or Holes observed on Both Tanks.

Notes:

Plot Key
X = Sample location
T _x = Tank number
S _x = Sample number
D' = Depth below grade(ft)
Note the depth of sample. eg. : S ₁ -D'
Analysis/Sample numbers
TPH Gas & BTXE/ <u>MTBE</u>
<u>S₂ & S₃</u>
TPH Diesel/ <u>MTBE</u>
<u>S₁ & S₂</u>
EPA 418.1/
Other:
Note: TPH by DHS-GC/FID(LUFT), BTXE by 8020



Dee Pierson
Analyst Signature

[Signature] (MAY/UCRUC)
Owner/Representative Signature, Title

CONTRACTOR CERTIFIES PROPER DECONTAMINATION OF TANKS: [Signature]



OIL CONSERVATION SERVICE INC.

No 1041

ENVIRONMENTAL SERVICES
3256 N. MARKS AVE.
FRESNO, CA 93722-4919
(559) 485-5495
FAX (559) 485-5497

CONSERVATION
THRU
RECYCLING

ENVIRONMENTAL PROTECTION AGENCY
I.D. NO. CAD 980 673 842

DEPT. OF HEALTH SERVICES
HAZARDOUS WASTE HAULER
REG. NO 1943

TANK TEST CERTIFICATION

Date: 7/16/01 Job No.: 2001-440 Tank No.: 6602 Tank Size: 8000

Manifest No.: 20664859 Invoice No.: 24751 Prod. Unl. Gas

Held: Lead Gas

Diesel

Waste Oil

Other (NOT USED)

EPA ID No.: CAC 002 378 215

Generator: Mr. Steve Pilibos

Phone: (559) 268-0101

Address: 1919 S. Willow Ave.

City: Fresno Zip: 93727

Client: Statewide Excavation

Phone: 559-237-7178

Address: 5408 E. Jensen Ave.

City: Fresno Zip: 93725

Test No. <u>1</u>	Time: <u>7:15</u>	LEL: <u>2</u> %	Initial: <u>RD</u>
Test No. <u>2</u>	Time: <u>7:50</u>	LEL: <u>2</u> %	Initial: <u>RD</u>
Test No. <u>3</u>	Time: _____	LEL: _____ %	Initial: _____
Test No. <u>4</u>	Time: _____	LEL: _____ %	Initial: _____
Test No. <u>5</u>	Time: _____	LEL: _____ %	Initial: _____

O.C.S. Inc. certifies that at the time that this tank was tested by us it was free of flammable vapors. It may not remain vapor free. Treat this container with extreme caution, it may contain explosive gases.

DO NOT EXPOSE THIS CONTAINER TO FLAMES, SPARKS OR EXCESSIVE HEAT.

DO NOT CUT OR WELD ON THIS TANK.

Generator's Signature (Signature)

Contractor's Signature (Signature)

County of: Fresno

County Inspector's Signature Jed Pizarro



OIL CONSERVATION SERVICE INC.

№ 1042

ENVIRONMENTAL SERVICES 3256 N. MARKS AVE. FRESNO, CA 93722-4919 (559) 485-5495 FAX (559) 485-5497

CONSERVATION THRU RECYCLING

ENVIRONMENTAL PROTECTION AGENCY I.D. NO. CAD 980 673 842

DEPT. OF HEALTH SERVICES HAZARDOUS WASTE HAULER REG. NO 1943

TANK TEST CERTIFICATION

Date: 7/16/01 Job No.: 2001-44 Tank No.: 6603 Tank Size: 6,000

Manifest No.: 20664859 Invoice No.: 24751 Prod. Unl. Gas [] Held: Lead Gas [x] Diesel [] Waste Oil [] Other []

EPA ID No.: CAC 002 378 215

Generator: Mr. Steve Pilibas

Address: 1919 S. Willow Ave.

Phone: (559) 268-0101

City: Fresno Zip: 93727

Client: Statewide Excavation

Address: 5408 E. Jensen Ave.

Phone: (559) 237-7178

City: Fresno Zip: 93725

Table with 4 columns: Test No., Time, LEL, Initial. Contains 5 rows of test data.

O.C.S. Inc. certifies that at the time that this tank was tested by us it was free of flammable vapors. It may not remain vapor free. Treat this container with extreme caution, it may contain explosive gases.

DO NOT EXPOSE THIS CONTAINER TO FLAMES, SPARKS OR EXCESSIVE HEAT.

DO NOT CUT OR WELD ON THIS TANK.

Generator's Signature, Contractor's Signature, County of: Fresno, County Inspector's Signature: Ted Perry

UNDERGROUND STORAGE TANKS - FACILITY UNIFIED PROGRAM CONSOLIDATED FORM

FRESNO COUNTY HUMAN SERVICES SYSTEM-DEPARTMENT OF COMMUNITY HEALTH-ENVIRONMENTAL HEALTH SYSTEM
1221 Fulton Mall, Post Office Box 11867, Fresno, California 93775 (559) 445-3271 (one page per site) Page 1 of 5

TYPE OF ACTION (Check one item only)

<input type="checkbox"/> 1. NEW SITE PERMIT	<input type="checkbox"/> 3. RENEWAL PERMIT	<input type="checkbox"/> 5. CHANGE OF INFORMATION specify change local use only _____	<input type="checkbox"/> 7. PERMANENTLY CLOSED SITE
<input type="checkbox"/> 2. AMENDED PERMIT	<input type="checkbox"/> 4. AMENDED PERMIT	<input checked="" type="checkbox"/> 8. TANK REMOVED	
			<input type="checkbox"/> 6. TEMPORARY SITE CLOSURE

400

I. FACILITY / SITE INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) <u>STEVE PILIBOS RESIDENCE (FARM)</u>			FACILITY ID# <u>EPA CAC0002378215</u>		
BUSINESS ADDRESS <u>1919 S. Willow Ave. Fresno, CA. 93727</u>			FACILITY OWNER TYPE		
BUSINESS TYPE <input checked="" type="checkbox"/> 3. FARM			<input type="checkbox"/> 4. LOCAL AGENCY/DISTRICT*		
<input type="checkbox"/> 1. GAS STATION			<input type="checkbox"/> 5. COUNTY AGENCY*		
<input type="checkbox"/> 2. DISTRIBUTOR			<input checked="" type="checkbox"/> 2. INDIVIDUAL		
<input type="checkbox"/> 4. PROCESSOR			<input type="checkbox"/> 6. STATE AGENCY*		
<input type="checkbox"/> 6. OTHER			<input type="checkbox"/> 7. FEDERAL AGENCY*		
TOTAL NUMBER OF TANKS REMAINING AT SITE <u>0</u>		Is facility on Indian Reservation or trustlands? <input checked="" type="checkbox"/> No		*If owner of UST is a public agency: name of supervisor of division, section or office which operates the UST (This is the contact person for the tank records.)	

II. PROPERTY OWNER INFORMATION

PROPERTY OWNER NAME <u>STEVE PILIBOS RESIDENCE (FARM)</u>			PHONE <u>UNKNOWN</u>		
MAILING OR STREET ADDRESS <u>1919 S. Willow Ave</u>					
CITY <u>Fresno</u>		STATE <u>CA</u>		ZIP CODE <u>93727</u>	
PROPERTY OWNER TYPE <input checked="" type="checkbox"/> 2. INDIVIDUAL					
<input type="checkbox"/> 1. CORPORATION					
<input type="checkbox"/> 3. PARTNERSHIP					
<input type="checkbox"/> 4. LOCAL AGENCY / DISTRICT					
<input type="checkbox"/> 5. COUNTY AGENCY					
<input type="checkbox"/> 6. STATE AGENCY					
<input type="checkbox"/> 7. FEDERAL AGENCY					

III. TANK OWNER INFORMATION

TANK OWNER NAME <u>STEVE PILIBOS</u>			PHONE <u>UNKNOWN</u>		
MAILING OR STREET ADDRESS <u>1919 S. Willow Ave</u>					
CITY <u>Fresno</u>		STATE <u>CA</u>		ZIP CODE <u>93727</u>	
TANK OWNER TYPE <input checked="" type="checkbox"/> 2. INDIVIDUAL					
<input type="checkbox"/> 1. CORPORATION					
<input type="checkbox"/> 3. PARTNERSHIP					
<input type="checkbox"/> 4. LOCAL AGENCY / DISTRICT					
<input type="checkbox"/> 5. COUNTY AGENCY					
<input type="checkbox"/> 6. STATE AGENCY					
<input type="checkbox"/> 7. FEDERAL AGENCY					

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER

TY (TK) HQ 44- _____	Call (916) 322-9669 if questions arise
----------------------	--

V. PETROLEUM UST FINANCIAL RESPONSIBILITY

INDICATE METHOD(S)

<input type="checkbox"/> 1. SELF-INSURED	<input type="checkbox"/> 4. SURETY BOND	<input type="checkbox"/> 7. STATE FUND	<input type="checkbox"/> 10. LOCAL GOVT MECHANISM
<input type="checkbox"/> 2. GUARANTEE	<input type="checkbox"/> 5. LETTER OF CREDIT	<input type="checkbox"/> 8. STATE FUND & CFO LETTER	<input type="checkbox"/> 99. OTHER: _____
<input type="checkbox"/> 3. INSURANCE	<input type="checkbox"/> 6. EXEMPTION	<input type="checkbox"/> 9. STATE FUND & CD	

422

VI. LEGAL NOTIFICATION AND MAILING ADDRESS

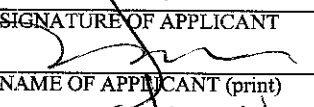
Check one box to indicate which address should be used for legal notifications and mailing. Legal notifications and mailings will be sent to the tank owner unless box 1 or 2 is checked.

<input type="checkbox"/> 1. FACILITY	<input type="checkbox"/> 2. PROPERTY OWNER	<input type="checkbox"/> 3. TANK OWNER
--------------------------------------	--	--

423

VII. APPLICANT SIGNATURE

Certification - I certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF APPLICANT 		DATE <u>JULY 13, 2001</u>	PHONE <u>(559) 227-8537</u>
NAME OF APPLICANT (print) <u>JIM WILLIAMS</u>		TITLE OF APPLICANT <u>CONTRACTOR (C/O OWNER)</u>	
STATE UST FACILITY NUMBER (For local use only) _____		1998 UPGRADE CERTIFICATE NUMBER (For local use only) _____	

UNDERGROUND STORAGE TANKS

TANK PAGE 1

UNIFIED PROGRAM CONSOLIDATED FORM

FRESNO COUNTY HUMAN SERVICES SYSTEM-DEPARTMENT OF COMMUNITY HEALTH-ENVIRONMENTAL HEALTH SYSTEM
1221 Fulton Mall, Post Office Box 11867, Fresno, California 93775 (559) 445-3271

(two pages per tank)

Page 4 of 5

TYPE OF ACTION (Check one item only)

1. NEW SITE PERMIT 4. AMENDED PERMIT 5. CHANGE OF INFORMATION) 6. TEMPORARY SITE CLOSURE

3. RENEWAL PERMIT 7. PERMANENTLY CLOSED ON SITE 8. TANK REMOVED

(Specify reason - for local use only) (Specify change - for local use only)

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) 3 FACILITY ID # 1

STEVE PIUBOS RESIDENCE (FARM) EPA CAC002878215

LOCATION WITHIN SITE (Optional) 431

1919 S. WILLOW AVE. FRESNO, CA. 93727

I. TANK DESCRIPTION

TANK ID # 432	TANK MANUFACTURER 433	COMPARTMENTALIZED TANK 434	
<u>UNKNOWN</u>	<u>UNKNOWN</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If "Yes", complete one page for each compartment.
DATE INSTALLED (YEAR/MO) 435	TANK CAPACITY IN GALLONS 436	NUMBER OF COMPARTMENTS 437	
<u>APPROX. 25 YEARS</u>	<u>6000</u>	<u>ONE</u>	
ADDITIONAL DESCRIPTION (For local use only) 438			

II. TANK CONTENTS

TANK USE 439	PETROLEUM TYPE 440	
<input checked="" type="checkbox"/> 1. MOTOR VEHICLE FUEL (If marked, complete Petroleum Type)	<input type="checkbox"/> 1a. REGULAR UNLEADED <input checked="" type="checkbox"/> 2. LEADED	<input type="checkbox"/> 5. JET FUEL
<input type="checkbox"/> 2. NON-FUEL PETROLEUM	<input type="checkbox"/> 1b. PREMIUM UNLEADED <input type="checkbox"/> 3. DIESEL	<input type="checkbox"/> 6. AVIATION FUEL
<input type="checkbox"/> 3. CHEMICAL PRODUCT	<input type="checkbox"/> 1c. MIDGRADE UNLEADED <input type="checkbox"/> 4. GASOHOL	<input type="checkbox"/> 99. OTHER
<input type="checkbox"/> 4. HAZARDOUS WASTE (Includes Used Oil)	COMMON NAME (from Hazardous Materials Inventory page) 441	CAS # (from Hazardous Materials Inventory page) 442
<input type="checkbox"/> 95. UNKNOWN		

III. TANK CONSTRUCTION

TYPE OF TANK (Check one item only)	<input checked="" type="checkbox"/> 1. SINGLE WALL <input type="checkbox"/> 3. SINGLE WALL WITH EXTERIOR MEMBRANE LINER <input type="checkbox"/> 5. SINGLE WALL WITH INTERNAL BLADDER SYSTEM 443 <input type="checkbox"/> 2. DOUBLE WALL <input type="checkbox"/> 4. SINGLE WALL IN A VAULT <input type="checkbox"/> 95. UNKNOWN <input type="checkbox"/> 99. OTHER	
TANK MATERIAL - primary tank (Check one item only)	<input checked="" type="checkbox"/> 1. BARE STEEL <input type="checkbox"/> 3. FIBERGLASS / PLASTIC <input type="checkbox"/> 5. CONCRETE <input type="checkbox"/> 95. UNKNOWN 444 <input type="checkbox"/> 2. STAINLESS STEEL <input type="checkbox"/> 4. STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC (FRP) <input type="checkbox"/> 8. FRP COMPATIBLE W/100% METHANOL <input type="checkbox"/> 99. OTHER	
TANK MATERIAL - secondary tank (Check one item only)	<input type="checkbox"/> 1. BARE STEEL <input type="checkbox"/> 3. FIBERGLASS / PLASTIC <input type="checkbox"/> 8. FRP COMPATIBLE W/100% METHANOL <input type="checkbox"/> 95. UNKNOWN 445 <input type="checkbox"/> 2. STAINLESS STEEL <input type="checkbox"/> 4. STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC (FRP) <input type="checkbox"/> 9. FRP NON-CORRODIBLE JACKET <input type="checkbox"/> 99. OTHER <input type="checkbox"/> 5. CONCRETE <input type="checkbox"/> 10. COATED STEEL	
TANK INTERIOR LINING OR COATING (Check one item only)	<input type="checkbox"/> 1. RUBBER LINED <input type="checkbox"/> 3. EPOXY LINING <input type="checkbox"/> 5. GLASS LINING <input type="checkbox"/> 95. UNKNOWN 446 <input type="checkbox"/> 2. ALKYD LINING <input type="checkbox"/> 4. PHENOLIC LINING <input checked="" type="checkbox"/> 6. UNLINED <input type="checkbox"/> 99. OTHER	DATE INSTALLED 447
OTHER CORROSION PROTECTION IF APPLICABLE (Check one item only)	<input checked="" type="checkbox"/> 1. MANUFACTURED CATHODIC PROTECTION <input type="checkbox"/> 3. FIBERGLASS REINFORCED PLASTIC <input type="checkbox"/> 95. UNKNOWN 448 <input type="checkbox"/> 2. SACRIFICIAL ANODE <input type="checkbox"/> 4. IMPRESSED CURRENT <input type="checkbox"/> 99. OTHER	DATE INSTALLED 449
SPILL AND OVERFILL (Check all that apply)	YEAR INSTALLED 450 TYPE (For local use only) 451	OVERFILL PROTECTION EQUIPMENT: YEAR INSTALLED 452
<input type="checkbox"/> 1. SPILL CONTAINMENT	<u>N/A</u>	<input type="checkbox"/> 1. ALARM <input type="checkbox"/> 3. FILL TUBE SHUT OFF VALVE <u>N/A</u>
<input type="checkbox"/> 2. DROP TUBE		<input type="checkbox"/> 2. BALL FLOAT <u>N/A</u> <input type="checkbox"/> 4. EXEMPT
<input type="checkbox"/> 3. STRIKER PLATE		

IV. TANK LEAK DETECTION

IF SINGLE WALL TANK (Check all that apply): 453	IF DOUBLE WALL TANK OR TANK WITH BLADDER (Check one item only): 454
<input type="checkbox"/> 1. VISUAL (EXPOSED PORTION ONLY) <input type="checkbox"/> 5. MANUAL TANK GAUGING (MTG) <input type="checkbox"/> 2. AUTOMATIC TANK GAUGING (ATG) <input type="checkbox"/> 6. VADOSE ZONE <input type="checkbox"/> 3. CONTINUOUS ATG <input type="checkbox"/> 7. GROUNDWATER <input type="checkbox"/> 4. STATISTICAL INVENTORY RECONCILIATION (SIR) + BIENNIAL TANK TESTING <input type="checkbox"/> 8. TANK TESTING <input checked="" type="checkbox"/> 99. OTHER <u>UNKNOWN</u>	<input type="checkbox"/> 1. VISUAL (SINGLE WALL IN VAULT ONLY) <input type="checkbox"/> 2. CONTINUOUS INTERSTITIAL MONITORING <input type="checkbox"/> 3. MANUAL MONITORING

V. TANK CLOSURE INFORMATION / PERMANENT CLOSURE IN PLACE

ESTIMATED DATE LAST USED (YR/MO/DAY) 455	ESTIMATED QUANTITY OF SUBSTANCE REMAINING 456	TANK FILLED WITH INERT MATERIAL? 457
<u>APPROX. 5 YEARS</u>	<u>135</u> gallons	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

UNDERGROUND STORAGE TANKS

UNIFIED PROGRAM CONSOLIDATED FORM

FRESNO COUNTY HUMAN SERVICES SYSTEM-DEPARTMENT OF COMMUNITY HEALTH-ENVIRONMENTAL HEALTH SYSTEM

VI. PIPING CONSTRUCTION *(Check all that apply)*

	UNDERGROUND PIPING	ABOVEGROUND PIPING
SYSTEM TYPE	<input type="checkbox"/> 1. PRESSURE <input checked="" type="checkbox"/> 2. SUCTION <input type="checkbox"/> 3. GRAVITY	<input type="checkbox"/> 1. PRESSURE <input type="checkbox"/> 2. SUCTION <input type="checkbox"/> 3. GRAVITY
CONSTRUCTION/ MANUFACTURER	<input type="checkbox"/> 1. SINGLE WALL <input type="checkbox"/> 2. DOUBLE WALL <input type="checkbox"/> 95. UNKNOWN	<input type="checkbox"/> 1. SINGLE WALL <input type="checkbox"/> 2. DOUBLE WALL <input type="checkbox"/> 95. UNKNOWN <input type="checkbox"/> 99. OTHER
MATERIALS AND CORROSION PROTECTION	<input checked="" type="checkbox"/> 1. BARE STEEL <input type="checkbox"/> 2. STAINLESS STEEL <input type="checkbox"/> 3. PLASTIC COMPATIBLE WITH CONTENTS <input type="checkbox"/> 4. FIBERGLASS <input type="checkbox"/> 5. STEEL W/ COATING	<input type="checkbox"/> 1. BARE STEEL <input type="checkbox"/> 2. STAINLESS STEEL <input type="checkbox"/> 3. PLASTIC COMPATIBLE WITH CONTENTS <input type="checkbox"/> 4. FIBERGLASS <input type="checkbox"/> 5. STEEL W/ COATING <input type="checkbox"/> 6. FRP COMPATIBLE W/ 100% METHANOL <input type="checkbox"/> 7. GALVANIZED STEEL <input type="checkbox"/> 95. UNKNOWN <input type="checkbox"/> 99. OTHER

VII. PIPING LEAK DETECTION *(Check all that apply)*

UNDERGROUND PIPING	ABOVEGROUND PIPING
SINGLE WALL PIPING PRESSURIZED PIPING <i>(Check all that apply):</i> <input type="checkbox"/> 1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST <u>WITH</u> AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS <input type="checkbox"/> 2. MONTHLY 0.2 GPH TEST <input type="checkbox"/> 3. ANNUAL INTEGRITY TEST (0.1 GPH) CONVENTIONAL SUCTION SYSTEMS: <input type="checkbox"/> 5. DAILY VISUAL MONITORING OF PUMPING SYSTEM + TRIENNIAL PIPING INTEGRITY TEST (0.1 GPH) SAFE SUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING): <input type="checkbox"/> 7. SELF MONITORING GRAVITY FLOW: <input type="checkbox"/> 9. BIENNIAL INTEGRITY TEST (0.1 GPH)	SINGLE WALL PIPING PRESSURIZED PIPING <i>(Check all that apply):</i> <input type="checkbox"/> 1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST <u>WITH</u> AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS <input type="checkbox"/> 2. MONTHLY 0.2 GPH TEST <input type="checkbox"/> 3. ANNUAL INTEGRITY TEST (0.1 GPH) <input type="checkbox"/> 4. DAILY VISUAL CHECK CONVENTIONAL SUCTION SYSTEMS <i>(Check all that apply):</i> <input type="checkbox"/> 5. DAILY VISUAL MONITORING OF PIPING AND PUMPING SYSTEM <input type="checkbox"/> 6. TRIENNIAL INTEGRITY TEST (0.1 GPH) SAFE SUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING): <input type="checkbox"/> 7. SELF MONITORING GRAVITY FLOW <i>(Check all that apply):</i> <input type="checkbox"/> 8. DAILY VISUAL MONITORING <input type="checkbox"/> 9. BIENNIAL INTEGRITY TEST (0.1 GPH)
SECONDARILY CONTAINED PIPING PRESSURIZED PIPING <i>(Check all that apply):</i> <input type="checkbox"/> 10. CONTINUOUS TURBINE SUMP SENSOR <u>WITH</u> AUDIBLE AND VISUAL ALARMS AND <i>(check one)</i> <input type="checkbox"/> a. AUTO PUMP SHUT OFF WHEN A LEAK OCCURS <input type="checkbox"/> b. AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION <input type="checkbox"/> c. NO AUTO PUMP SHUT OFF <input type="checkbox"/> 11. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) <u>WITH</u> FLOW SHUT OFF OR RESTRICTION <input type="checkbox"/> 12. ANNUAL INTEGRITY TEST (0.1 GPH) SUCTION/GRAVITY SYSTEM: <input type="checkbox"/> 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS EMERGENCY GENERATORS ONLY <i>(Check all that apply)</i> <input type="checkbox"/> 14. CONTINUOUS SUMP SENSOR <u>WITHOUT</u> AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS <input type="checkbox"/> 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) <u>WITHOUT</u> FLOW SHUT OFF OR RESTRICTION <input type="checkbox"/> 16. ANNUAL INTEGRITY TEST (0.1 GPH) <input type="checkbox"/> 17. DAILY VISUAL CHECK	SECONDARILY CONTAINED PIPING PRESSURIZED PIPING <i>(Check all that apply):</i> <input type="checkbox"/> 10. CONTINUOUS TURBINE SUMP SENSOR <u>WITH</u> AUDIBLE AND VISUAL ALARMS AND <i>(check one)</i> <input type="checkbox"/> a. AUTO PUMP SHUT OFF WHEN A LEAK OCCURS <input type="checkbox"/> b. AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION <input type="checkbox"/> c. NO AUTO PUMP SHUT OFF <input type="checkbox"/> 11. AUTOMATIC LEAK DETECTOR <input type="checkbox"/> 12. ANNUAL INTEGRITY TEST (0.1 GPH) SUCTION/GRAVITY SYSTEM: <input type="checkbox"/> 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS EMERGENCY GENERATORS ONLY <i>(Check all that apply)</i> <input type="checkbox"/> 14. CONTINUOUS SUMP SENSOR <u>WITHOUT</u> AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS <input type="checkbox"/> 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) <input type="checkbox"/> 16. ANNUAL INTEGRITY TEST (0.1 GPH) <input type="checkbox"/> 17. DAILY VISUAL CHECK

VIII. DISPENSER CONTAINMENT

DISPENSER CONTAINMENT	<input type="checkbox"/> 1. FLOAT MECHANISM THAT SHUTS OFF SHEAR VALVE <input type="checkbox"/> 2. CONTINUOUS DISPENSER PAN SENSOR + AUDIBLE AND VISUAL ALARMS <input type="checkbox"/> 3. CONTINUOUS DISPENSER PAN SENSOR <u>WITH</u> AUTO SHUT OFF FOR DISPENSER + AUDIBLE AND VISUAL ALARMS	<input type="checkbox"/> 4. DAILY VISUAL CHECK <input type="checkbox"/> 5. TRENCH LINER / MONITORING <input checked="" type="checkbox"/> 6. NONE
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IX. OWNER/OPERATOR SIGNATURE

I certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF OWNER/OPERATOR	DATE
	July 13, 2001
NAME OF OWNER/OPERATOR <i>(print)</i>	TITLE OF OWNER/OPERATOR
JIM WILLIAMS	CONTRACTOR (c/o owner)

Permit Number <i>(For local use only)</i>	Permit Approved <i>(For local use only)</i>	Permit Expiration Date <i>(For local use only)</i>
473	474	475

UNDERGROUND STORAGE TANKS

TANK PAGE 1

UNIFIED PROGRAM CONSOLIDATED FORM
FRESNO COUNTY HUMAN SERVICES SYSTEM-DEPARTMENT OF COMMUNITY HEALTH-ENVIRONMENTAL HEALTH SYSTEM
1221 Fulton Mall, Post Office Box 11867, Fresno, California 93775 (559) 445-3271

(two pages per tank)

Page 2 of 5

TYPE OF ACTION (Check one item only)

1. NEW SITE PERMIT 4. AMENDED PERMIT 5. CHANGE OF INFORMATION 6. TEMPORARY SITE CLOSURE

3. RENEWAL PERMIT 7. PERMANENTLY CLOSED ON SITE 8. TANK REMOVED

(Specify reason - for local use only) (Specify change - for local use only)

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) 3 FACILITY ID # 1

STEVE PULBOR RESIDENCE EPA CAC002378215

LOCATION WITHIN SITE (Optional) 431

1919 S. Willow Ave Fresno, Ca. 93725

I. TANK DESCRIPTION

TANK ID # 432	TANK MANUFACTURER 433	COMPARTMENTALIZED TANK <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 434
UNKNOWN	UNKNOWN	If "Yes", complete one page for each compartment.
DATE INSTALLED (YEAR/MO) 435	TANK CAPACITY IN GALLONS 436	NUMBER OF COMPARTMENTS 437
APPROX. 20 YEARS	8000	ONE
ADDITIONAL DESCRIPTION (For local use only) 438		

II. TANK CONTENTS

TANK USE 439	PETROLEUM TYPE 440
<input checked="" type="checkbox"/> 1. MOTOR VEHICLE FUEL (if marked, complete Petroleum Type)	<input checked="" type="checkbox"/> 1a. REGULAR UNLEADED <input type="checkbox"/> 2. LEADED <input type="checkbox"/> 5. JET FUEL
<input type="checkbox"/> 2. NON-FUEL PETROLEUM	<input type="checkbox"/> 1b. PREMIUM UNLEADED <input type="checkbox"/> 3. DIESEL <input type="checkbox"/> 6. AVIATION FUEL
<input type="checkbox"/> 3. CHEMICAL PRODUCT	<input type="checkbox"/> 1c. MIDGRADE UNLEADED <input type="checkbox"/> 4. GASOLINE <input type="checkbox"/> 99. OTHER
<input type="checkbox"/> 4. HAZARDOUS WASTE (Includes Used Oil)	COMMON NAME (from Hazardous Materials Inventory page) 441
<input type="checkbox"/> 95. UNKNOWN	CAS # (from Hazardous Materials Inventory page) 442

III. TANK CONSTRUCTION

TYPE OF TANK (Check one item only)	<input checked="" type="checkbox"/> 1. SINGLE WALL <input type="checkbox"/> 2. DOUBLE WALL	<input type="checkbox"/> 3. SINGLE WALL WITH EXTERIOR MEMBRANE LINER <input type="checkbox"/> 4. SINGLE WALL IN A VAULT	<input type="checkbox"/> 5. SINGLE WALL WITH INTERNAL BLADDER SYSTEM <input type="checkbox"/> 95. UNKNOWN <input type="checkbox"/> 99. OTHER	443
TANK MATERIAL - primary tank (Check one item only)	<input checked="" type="checkbox"/> 1. BARE STEEL <input type="checkbox"/> 2. STAINLESS STEEL	<input type="checkbox"/> 3. FIBERGLASS / PLASTIC <input type="checkbox"/> 4. STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC (FRP)	<input type="checkbox"/> 5. CONCRETE <input type="checkbox"/> 8. FRP COMPATIBLE W/100% METHANOL <input type="checkbox"/> 95. UNKNOWN <input type="checkbox"/> 99. OTHER	444
TANK MATERIAL - secondary tank (Check one item only)	<input type="checkbox"/> 1. BARE STEEL <input type="checkbox"/> 2. STAINLESS STEEL	<input type="checkbox"/> 3. FIBERGLASS / PLASTIC <input type="checkbox"/> 4. STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC (FRP) <input type="checkbox"/> 5. CONCRETE	<input type="checkbox"/> 8. FRP COMPATIBLE W/100% METHANOL <input type="checkbox"/> 9. FRP NON-CORRODIBLE JACKET <input type="checkbox"/> 10. COATED STEEL <input type="checkbox"/> 95. UNKNOWN <input type="checkbox"/> 99. OTHER	445
TANK INTERIOR LINING OR COATING (Check one item only)	<input type="checkbox"/> 1. RUBBER LINED <input type="checkbox"/> 2. ALKYD LINING	<input type="checkbox"/> 3. EPOXY LINING <input type="checkbox"/> 4. PHENOLIC LINING	<input checked="" type="checkbox"/> 5. GLASS LINING <input checked="" type="checkbox"/> 6. UNLINED <input type="checkbox"/> 95. UNKNOWN <input type="checkbox"/> 99. OTHER	446
OTHER CORROSION PROTECTION IF APPLICABLE (Check one item only)	<input checked="" type="checkbox"/> 1. MANUFACTURED CATHODIC PROTECTION <input type="checkbox"/> 2. SACRIFICIAL ANODE	<input type="checkbox"/> 3. FIBERGLASS REINFORCED PLASTIC <input type="checkbox"/> 4. IMPRESSED CURRENT	<input type="checkbox"/> 95. UNKNOWN <input type="checkbox"/> 99. OTHER	448
SPILL AND OVERFILL (Check all that apply)	<input type="checkbox"/> 1. SPILL CONTAINMENT <input type="checkbox"/> 2. DROP TUBE <input type="checkbox"/> 3. STRIKER PLATE	YEAR INSTALLED 450 TYPE (For local use only) 451	OVERFILL PROTECTION EQUIPMENT: YEAR INSTALLED 452	
		N/A	1. ALARM N/A 2. BALL FLOAT N/A 3. FILL TUBE SHUT OFF VALVE N/A 4. EXEMPT	

IV. TANK LEAK DETECTION

IF SINGLE WALL TANK (Check all that apply): 453	IF DOUBLE WALL TANK OR TANK WITH BLADDER (Check one item only): 454
<input type="checkbox"/> 1. VISUAL (EXPOSED PORTION ONLY) <input type="checkbox"/> 2. AUTOMATIC TANK GAUGING (ATG) <input type="checkbox"/> 3. CONTINUOUS ATG <input type="checkbox"/> 4. STATISTICAL INVENTORY RECONCILIATION (SIR) + BIENNIAL TANK TESTING	<input type="checkbox"/> 1. VISUAL (SINGLE WALL IN VAULT ONLY) <input type="checkbox"/> 2. CONTINUOUS INTERSTITIAL MONITORING <input type="checkbox"/> 3. MANUAL MONITORING
<input type="checkbox"/> 5. MANUAL TANK GAUGING (MTG) <input type="checkbox"/> 6. VADOSE ZONE <input type="checkbox"/> 7. GROUNDWATER <input checked="" type="checkbox"/> 8. TANK TESTING <input checked="" type="checkbox"/> 99. OTHER UNKNOWN	

V. TANK CLOSURE INFORMATION / PERMANENT CLOSURE IN PLACE

ESTIMATED DATE LAST USED (YR/MO/DAY) 455	ESTIMATED QUANTITY OF SUBSTANCE REMAINING 456	TANK FILLED WITH INERT MATERIAL? 457
5 YEARS	0 gallons	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

HSS-1017

UNDERGROUND STORAGE TANKS

TANK PAGE 2

UNIFIED PROGRAM CONSOLIDATED FORM

FRESNO COUNTY HUMAN SERVICES SYSTEM-DEPARTMENT OF COMMUNITY HEALTH-ENVIRONMENTAL HEALTH SYSTEM

Page 3 of 5

VI. PIPING CONSTRUCTION *(Check all that apply)*

UNDERGROUND PIPING				ABOVEGROUND PIPING				
SYSTEM TYPE	<input type="checkbox"/> 1. PRESSURE	<input checked="" type="checkbox"/> 2. SUCTION	<input type="checkbox"/> 3. GRAVITY	458	<input type="checkbox"/> 1. PRESSURE	<input type="checkbox"/> 2. SUCTION	<input type="checkbox"/> 3. GRAVITY	459
CONSTRUCTION/ MANUFACTURER	<input checked="" type="checkbox"/> 1. SINGLE WALL	<input type="checkbox"/> 3. LINED TRENCH	<input type="checkbox"/> 99. OTHER	460	<input type="checkbox"/> 1. SINGLE WALL	<input type="checkbox"/> 95. UNKNOWN		462
	<input type="checkbox"/> 2. DOUBLE WALL	<input type="checkbox"/> 95. UNKNOWN			<input type="checkbox"/> 2. DOUBLE WALL	<input type="checkbox"/> 99. OTHER		
	MANUFACTURER			461	MANUFACTURER			463
MATERIALS AND CORROSION PROTECTION	<input checked="" type="checkbox"/> 1. BARE STEEL	<input type="checkbox"/> 6. FRP COMPATIBLE W/ 100% METHANOL			<input type="checkbox"/> 1. BARE STEEL	<input type="checkbox"/> 6. FRP COMPATIBLE W/ 100% METHANOL		
	<input type="checkbox"/> 2. STAINLESS STEEL	<input type="checkbox"/> 7. GALVANIZED STEEL			<input type="checkbox"/> 2. STAINLESS STEEL	<input type="checkbox"/> 7. GALVANIZED STEEL		
	<input type="checkbox"/> 3. PLASTIC COMPATIBLE WITH CONTENTS	<input type="checkbox"/> 95. UNKNOWN			<input type="checkbox"/> 3. PLASTIC COMPATIBLE WITH CONTENTS	<input type="checkbox"/> 8. FLEXIBLE (HDPE)	<input type="checkbox"/> 99. OTHER	
	<input type="checkbox"/> 4. FIBERGLASS	<input type="checkbox"/> 8. FLEXIBLE (HDPE)	<input type="checkbox"/> 99. OTHER		<input type="checkbox"/> 4. FIBERGLASS	<input type="checkbox"/> 9. CATHODIC PROTECTION		
	<input type="checkbox"/> 5. STEEL W/ COATING	<input type="checkbox"/> 9. CATHODIC PROTECTION		464	<input type="checkbox"/> 5. STEEL W/ COATING	<input type="checkbox"/> 95. UNKNOWN		465

VII. PIPING LEAK DETECTION *(Check all that apply)*

UNDERGROUND PIPING		ABOVEGROUND PIPING	
SINGLE WALL PIPING		SINGLE WALL PIPING	
466		467	
<i>PRESSURIZED PIPING (Check all that apply):</i>		<i>PRESSURIZED PIPING (Check all that apply):</i>	
<input type="checkbox"/> 1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST <u>WITH</u> AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS		<input type="checkbox"/> 1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST <u>WITH</u> AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS	
<input type="checkbox"/> 2. MONTHLY 0.2 GPH TEST		<input type="checkbox"/> 2. MONTHLY 0.2 GPH TEST	
<input type="checkbox"/> 3. ANNUAL INTEGRITY TEST (0.1 GPH)		<input type="checkbox"/> 3. ANNUAL INTEGRITY TEST (0.1 GPH)	
<i>CONVENTIONAL SUCTION SYSTEMS:</i>		<i>CONVENTIONAL SUCTION SYSTEMS (Check all that apply):</i>	
<input type="checkbox"/> 5. DAILY VISUAL MONITORING OF PUMPING SYSTEM + TRIENNIAL PIPING INTEGRITY TEST (0.1 GPH)		<input type="checkbox"/> 5. DAILY VISUAL MONITORING OF PIPING AND PUMPING SYSTEM	
<i>SAFE SUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING):</i>		<i>SAFE SUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING):</i>	
<input type="checkbox"/> 7. SELF MONITORING		<input type="checkbox"/> 7. SELF MONITORING	
<i>GRAVITY FLOW:</i>		<i>GRAVITY FLOW (Check all that apply):</i>	
<input type="checkbox"/> 9. BIENNIAL INTEGRITY TEST (0.1 GPH)	N/A	<input type="checkbox"/> 8. DAILY VISUAL MONITORING	
		<input type="checkbox"/> 9. BIENNIAL INTEGRITY TEST (0.1 GPH)	
SECONDARILY CONTAINED PIPING		SECONDARILY CONTAINED PIPING	
<i>PRESSURIZED PIPING (Check all that apply):</i>		<i>PRESSURIZED PIPING (Check all that apply):</i>	
<input type="checkbox"/> 10. CONTINUOUS TURBINE SUMP SENSOR <u>WITH</u> AUDIBLE AND VISUAL ALARMS AND (Check one)		<input type="checkbox"/> 10. CONTINUOUS TURBINE SUMP SENSOR <u>WITH</u> AUDIBLE AND VISUAL ALARMS AND (check one)	
<input type="checkbox"/> a. AUTO PUMP SHUT OFF WHEN A LEAK OCCURS		<input type="checkbox"/> a. AUTO PUMP SHUT OFF WHEN A LEAK OCCURS	
<input type="checkbox"/> b. AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION		<input type="checkbox"/> b. AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION	
<input type="checkbox"/> c. NO AUTO PUMP SHUT OFF		<input type="checkbox"/> c. NO AUTO PUMP SHUT OFF	
<input type="checkbox"/> 11. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) <u>WITH</u> FLOW SHUT OFF OR RESTRICTION		<input type="checkbox"/> 11. AUTOMATIC LEAK DETECTOR	
<input type="checkbox"/> 12. ANNUAL INTEGRITY TEST (0.1 GPH)		<input type="checkbox"/> 12. ANNUAL INTEGRITY TEST (0.1 GPH)	
<i>SUCTION/GRAVITY SYSTEM:</i>		<i>SUCTION/GRAVITY SYSTEM:</i>	
<input type="checkbox"/> 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS		<input type="checkbox"/> 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS	
EMERGENCY GENERATORS ONLY (Check all that apply)		EMERGENCY GENERATORS ONLY (Check all that apply)	
<input type="checkbox"/> 14. CONTINUOUS SUMP SENSOR <u>WITHOUT</u> AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS		<input type="checkbox"/> 14. CONTINUOUS SUMP SENSOR <u>WITHOUT</u> AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS	
<input type="checkbox"/> 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) <u>WITHOUT</u> FLOW SHUT OFF OR RESTRICTION		<input type="checkbox"/> 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST)	
<input type="checkbox"/> 16. ANNUAL INTEGRITY TEST (0.1 GPH)		<input type="checkbox"/> 16. ANNUAL INTEGRITY TEST (0.1 GPH)	
<input type="checkbox"/> 17. DAILY VISUAL CHECK		<input type="checkbox"/> 17. DAILY VISUAL CHECK	

VIII. DISPENSER CONTAINMENT

DISPENSER CONTAINMENT	<input type="checkbox"/> 1. FLOAT MECHANISM THAT SHUTS OFF SHEAR VALVE	<input type="checkbox"/> 4. DAILY VISUAL CHECK
DATE INSTALLED	<input type="checkbox"/> 2. CONTINUOUS DISPENSER PAN SENSOR + AUDIBLE AND VISUAL ALARMS	<input type="checkbox"/> 5. TRENCH LINER / MONITORING
<u>N/A</u>	<input type="checkbox"/> 3. CONTINUOUS DISPENSER PAN SENSOR <u>WITH</u> AUTO SHUT OFF FOR DISPENSER + AUDIBLE AND VISUAL ALARMS	<input checked="" type="checkbox"/> 6. NONE
		468

IX. OWNER/OPERATOR SIGNATURE

I certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF OWNER/OPERATOR	DATE
	July 13, 2001
NAME OF OWNER/OPERATOR (print)	TITLE OF OWNER/OPERATOR
471 Jim Williams	472 CONTRACTOR (C/O OWNER)

Permit Number (For local use only)	473	Permit Approved (For local use only)	474
			Permit Expiration Date (For local use only) 475

HSS-1018

UNDERGROUND STORAGE TANK PERMIT APPLICATION

FRESNO COUNTY DEPARTMENT OF COMMUNITY HEALTH
ENVIRONMENTAL HEALTH SYSTEM

P.O. BOX 11867

FRESNO, CA. 93775 (559) 445-3271

ABANDONMENT/REMOVAL ABANDONMENT IN PLACE NEW CONSTRUCTION REPAIR

FACILITY INFORMATION

Facility Name STEVE PILIBOS RESIDENCE Facility Phone UNKNOWN Job Phone (559) 978-3512
 Address 1919 S. Willow Ave City FRESNO, CA State CA Zip 93727
 Tank Owner STEVE PILIBOS c/o PILIBOS BROS. Phone UNKNOWN
 Address 1919 S. Willow Ave City FRESNO State CA Zip 93727

CONTRACTOR INFORMATION	TANK CLEANER/TRANSPORTER	CONSULTANT INFORMATION
Company <u>STATEWIDE EXCAVATION, LLC</u>	Company <u>OCS, LLC</u>	Company <u>TWILUX LABORATORIES, LLC</u>
Address <u>5408 E. JEWELL AVE</u>	Address <u>3256 N. MARSH AVE</u>	Address <u>P.O. Box 1472</u>
City <u>FRESNO, CA.</u> Zip <u>93725</u>	City <u>FRESNO, CA</u> Zip <u>93722</u>	City <u>FRESNO, CA.</u> Zip <u>93716</u>
Phone <u>(559) 227-8537</u>	Phone <u>(559) 485-5495</u>	Phone <u>(559) 268-7021</u>
Contractor Class <u>A - HAZ</u>	Waste Transporter ID No. <u>1943</u>	Registration Type <u>RG 4568</u>
License No. <u>503776</u>	Tank Destination <u>WESTSIDE FARM - PILIBOS (1)</u>	License No. <u>N/A</u>
Site Contact Person: <u>JIM WILLIAMS</u>	Rinsate Manifested <input checked="" type="checkbox"/> Tank Manifested <u>No</u>	

TANK INFORMATION

PERMIT #	SIZE	PRODUCT	AGE OF TANK	PREVIOUSLY STORED MATERIAL
<u>66602</u>	<u>8000</u>	<u>(NOT USED)?</u>	<u>25</u>	<u>(NOT USED)?</u>
<u>66603</u>	<u>8000</u>	<u>GASOLINE</u>	<u>25</u>	<u>GASOLINE</u>

DESCRIBE WORK TO BE PERFORMED

REMOVE TANK AS PER F.C.E.H.D. SPECIFICATIONS, INCLUDING BACK-FILL.

OFFICIAL USE ONLY

PR#	CT <u>14-05</u>	APN	Fee \$ <u>342-00</u>	Application Date <u>7/2/01</u>
-----	-----------------	-----	----------------------	--------------------------------

NOTE: Permit expires ninety (90) days after the application date. The applicant has received, understands, and will comply with the attached conditions of this permit and any other State and local regulations. Permit Conditions provided State Permit Application (forms A, B, C) provided Grading Permit confirmation Abandonment in place hand out provided OSHA Excavation Permit on file

APPROVED BY [Signature] APPLICANT NAME (PRINT) JIM WILLIAMS APPLICANT SIGNATURE / TITLE (MVA) LICENSEE

TO:

COUNTY OF FRESNO

DEPARTMENT OF HEALTH
UNDERGROUND STORAGE TANK PROGRAM
P.O. Box 11867
FRESNO, CALIFORNIA 93775

GRADING PERMIT STATUS IN CONJUNCTION WITH THE REMOVAL OF UNDERGROUND PETROLEUM STORAGE TANKS

This form is to provide the County of Fresno with information regarding the grading (or excavation/compaction) permit status relative to the proposed **removal of underground petroleum storage tanks** at the following site:

This form must be presented to Fresno County Environmental Health System **prior to** obtaining an underground storage tank abandonment permit.

Address: 1919 S. Willow Ave
City/County: Fresno
Nearest Cross Street or Road: BUTLER AVE

A grading Permit was issued on JULY 2, 2001 for this site

A grading permit **is not required** by this jurisdiction for excavation and or backfilling in conjunction with the removal of underground storage tanks at this site.

Comments:
Provide Compaction Reports - 90% or better. (Twining Lab)

CITY/COUNTY OF

James G. ...
Printed name of official

262-4167
Phone number

[Signature]
Signature of official

7/2/01
Date

BUSINESS OWNER/OPERATOR IDENTIFICATION

FACILITY INFORMATION

UNIFIED PROGRAM CONSOLIDATED FORM

FRESNO

COUNTY HUMAN SERVICES SYSTEM-DEPARTMENT OF COMMUNITY HEALTH-ENVIRONMENTAL HEALTH SYSTEM 1221 Fulton
Mail, Post Office Box 11867, Fresno, California 93775 (559) 445-3271

Page ___ of ___

I. IDENTIFICATION

FACILITY ID#		BEGINNING DATE	100	ENDING DATE	101
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)	Best Auto Service			BUSINESS PHONE	102
BUSINESS SITE ADDRESS	1523 E. Belmont				
CITY	104	CA	ZIP CODE	93702	
DUN & BRADSTREET	106	SIC CODE (4 digit #)			
COUNTY	FRESNO				
BUSINESS OPERATOR NAME	109	BUSINESS OPERATOR PHONE			110
Ge Moua		(559) 454-1136			

II. BUSINESS OWNER

OWNER NAME	111	OWNER PHONE	112
GE MOUA		(559) 456-4372	
OWNER MAILING ADDRESS			
2363 S. Jimmy			
CITY	114	STATE	115
Fresno		CA	116
		ZIP CODE	93725

III. ENVIRONMENTAL CONTACT

CONTACT NAME	117	CONTACT PHONE	118
SAME		() - SAME	
CONTACT MAILING ADDRESS			
SAME			
CITY	120	STATE	121
SAME			122
		ZIP CODE	

-PRIMARY-

IV. EMERGENCY CONTACTS

-SECONDARY-

NAME	123	NAME	128
SAME			
TITLE	124	TITLE	129
BUSINESS PHONE	125	BUSINESS PHONE	130
() -		() -	
24-HOUR PHONE	126	24-HOUR PHONE	131
() -		() -	
PAGER #	127	PAGER #	132
() -		() -	

LOCAL REQUIREMENTS

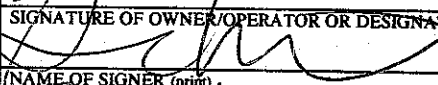
BUSINESS PLAN STATUS:

Y N Is there any change to your hazardous materials inventory? If yes, complete and submit the "Hazardous Materials Inventory - Chemical Description" Form(s).

Y N Is there any change to your general facility information (i.e. address, phone numbers, contact names, etc.)? If yes, complete this form to ensure the appropriate changes have been made.

Y N Is there any change to your site map or building diagram(s)? If yes, submit an amended site map and/or building diagrams.

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE	134	NAME OF DOCUMENT PREPARER	135
		12/20/02	GE MOUA	
(NAME OF SIGNER (print))	136	TITLE OF SIGNER	137	
GE MOUA		owner		

BUSINESS ACTIVITIES

FACILITY INFORMATION

UNIFIED PROGRAM CONSOLIDATED FORM

FRESNO COUNTY HUMAN SERVICES SYSTEM-DEPARTMENT OF COMMUNITY HEALTH-ENVIRONMENTAL HEALTH SYSTEM
1221 Fulton Mall, Post Office Box 11867, Fresno, California 93775 (559) 445-3271

Page of

I. FACILITY IDENTIFICATION

FACILITY ID #	EPA ID # (Hazardous Waste Only)
	Cal 000268108
BUSINESS NAME (Same as Facility Name of DBA-Doing Business As)	BUSINESS SITE ADDRESS
Best Auto Service 2823 E Belmont Fresno, CA	93702

II. ACTIVITIES DECLARATION

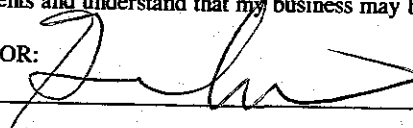
NOTE: If you check YES to any part of this list, please submit the Business Owner/Operator Identification page (OES Form 2730).

Does your facility...	If Yes, please complete these pages of the UPCF....	
A. HAZARDOUS MATERIALS Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 4	HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION (OES 2731)
B. UNDERGROUND STORAGE TANKS (USTs) <ul style="list-style-type: none"> Own or operate underground storage tanks? Intend to upgrade existing or install new USTs? Need to report closing a UST? 	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 5 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 6 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 7	UST FACILITY (Formerly SWRCB Form A) UST TANK (one page per tank) (Formerly Form B) UST FACILITY UST TANK (one per tank) UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank) (Formerly Form C) UST TANK (closure portion -one page per tank)
C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs) <ul style="list-style-type: none"> Own or operate ASTs above these thresholds: ---any tank capacity is greater than 660 gallons, or ---the total capacity for the facility is greater than 1,320 gallons? 	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 8	NO FORM REQUIRED TO CUPAs
D. HAZARDOUS WASTE <ul style="list-style-type: none"> Generate hazardous waste? Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)? Treat hazardous waste on site? Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)? Consolidate hazardous waste generated at a remote site? Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite? 	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO 9 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 10 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 11 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 12 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 13 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 14	EPA ID NUMBER - provide at the top of this page RECYCLABLE MATERIALS REPORT (one per recycler) ONSITE HAZARDOUS WASTE TREATMENT - FACILITY (Formerly DTSC Forms 1772) ONSITE HAZARDOUS WASTE TREATMENT - UNIT (one page per unit) (Formerly DTSC Forms 1772 A,B,C,D and L) CERTIFICATION OF FINANCIAL ASSURANCE (Formerly DTSC Form 1232) REMOTE WASTE / CONSOLIDATION SITE ANNUAL NOTIFICATION (Formerly DTSC Form 1196) HAZARDOUS WASTE TANK CLOSURE CERTIFICATION (Formerly DTSC Form 1249)
E. LOCAL REQUIREMENTS		

CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

I am exempt from these requirements and understand that my business may be subject to inspections to confirm my exemption status.

SIGNATURE OF OWNER/OPERATOR:



DATE:

12/20/02



HAZARDOUS MATERIALS HANDLER OFFICIAL INSPECTION REPORT

Facility Name Best Auto Service Date 12-28-02
 Site Address 4523 E. Belmont Time In 2:00 Time Out 3:00
 Owner/Operator GE MOUA Phone 454-1136 Census Tract 27

Type of Inspection Routine Consultation Inspection Consolidation Facility ID _____
 Reinspection Complaint Combined Routine Inspection Record ID _____
 Other _____ Joint Inspection Program Element 2240
 Integrated Multi-Media Inspection

CONSENT TO INSPECT GRANTED BY (Name / Title): GE MOUA
 Inspection may involve obtaining photographs, review and copying of records, and determination of compliance with hazardous materials/waste handling requirements.

HAZARDOUS MATERIALS BUSINESS PLAN AND GENERAL REQUIREMENTS	Yes	No	N/A	Violation #	Class I	Class II	Minor
Business Plan has been submitted & implemented on site HSC 25503.5, Title 19 CCR 2729	X						
Annual Business Plan update has been submitted HSC 25505, Title 19 CCR 2729.4, 2729.5							
Inventory of Hazardous Materials is accurate (including EHS) HSC 25509, 25510, Title 19 CCR 2729							
Annual EHS chemical description form signed and submitted Title 19 CCR 2729.6							
Site and facility maps are accurate HSC 25504, 25509, Title 19 CCR 2729							
Health & Safety/Emergency Response Plan established & implemented HSC 25504, 25507 (a), Title 19 CCR 2731							
Training documentation is maintained on site HSC 25504, Title 19 CCR 2732							
Complete chemical inventory information is available on site (MSDS) HSC 25509, Title 19 CCR 2729.2							
Chemicals are properly handled & stored HSC 25504, Title 19 CCR 2732							
Chemicals are properly labeled HSC 25509, Title 19 CCR 2729.2							
Spill control equipment is available on site HSC 25504, Title 19 CCR 2731							
Discovery of release immediately reported HSC 25507, Title 19 CCR 2731							
CalARP/Federal RMP is required & has been submitted. HSC 25531.1, 25531.2							
Certified SPCC Plan is required/maintained on site HSC 25270.5 (c)							

NOTES / VIOLATIONS:

Business Plan information left with the operator.

- 1.) Businesses that handle hazardous materials in amounts equal to or greater than the threshold amounts shall submit a business plan to this office by 30 days.
- 2.) Businesses that do not handle hazardous materials or handle hazardous materials below the threshold amounts shall submit the Business Owner/Operator Identification and Business Activities form to this office by 10 days.

Business/Operator and Business Activities Exemption forms were submitted today.

VIOLATIONS NOTED SHALL BE CORRECTED WITHIN _____ DAYS REINSPECTION DATE: _____
 NOTICE: REINSPECTION FEES WILL BE CHARGED FOR MULTIPLE REINSPECTIONS DUE TO UNCORRECTED VIOLATIONS.

Received By: [Signature] CUPA Analyst: [Signature] Page 1 of 1



**Human Services System
Department Of Community Health
ENVIRONMENTAL HEALTH APPLICATION**
P O Box 11800, Fresno CA 93775-1800 • 1221 Fulton Mall
☎ 559 445-3357 www.fresnohumanservices.org

ORIGINAL

Business Name Best Auto Service ::

Inspection Site Address 4523 E Belmont

Fresno, CA 93702

Date of Business Commencement 3/19/03 **Business Telephone** 454-1136

Billing Address Same As Inspection site Address.

Business Owner Ge Moua

Owner Address 2363 S. Timmy

Fresno CA **Telephone** 454-1136

The Applicant hereby agrees to abide by all applicable Federal, State, and Fresno County statutes, laws, regulations, and the Fresno County Charter Ordinances and to pay all applicable Fresno County Environmental Health Permit and Inspection Fees, and late penalties, if any, which apply to the Permit which is being applied for here. PENALTIES FOR LATE PAYMENT ARE ASSESSED AT 10% PER MONTH OR FRACTION THEREOF. Notify Environmental Health of any change in the type of business activity, name, billing address, or ownership by calling 445-3357. Failure to notify Environmental Health may result in late penalties, Permit denial or revocation, and business closure. **PERMITS AND FEES ARE NOT TRANSFERABLE.**

Owner/Authorized Signature	Title	Date
- DO NOT WRITE BELOW THIS LINE -		

Record ID#	EE#	PE#	Fee/Activity Description	Billing Code	Fee
<u>PR 0057638</u>	<u>226</u>	<u>2240</u>	<u>Exempt - Below Reportable</u>		<u>9</u>
<u>PR 0657639</u>	<u>226</u>	<u>2231</u>	<u>CESQG</u>		<u>7</u>
Penalty Calculation:				Penalty Due	<u>0</u>
				TOTAL AMOUNT DUE	<u>0</u>

RETURN TO: Born P **Date Left/Mailed/Taken In:** _____ **Taken In By:** _____

- New Business
 Ownership Change
 Business Name Change
 Billing Address Change
 Other
 Inactivate
 Delete: Closure Date _____
 Site Correction/Change
 Activity Change

Comments New Business

Business Name _____ **Owner** _____

Inspection Site _____ **CT#** 28 **City Code** 05

FA# 0276196 **Approved By:** [Signature] **EE#** 226 **Date** 3-19-03

Supervisor Review ✓✓✓ **Envision updated by** RC **Date** 3-20-03

Business Office Use	Envision Clerical Use
---------------------	-----------------------

DISPLAY IN A CONSPICUOUS PLACE



DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH FEE RECEIPT

071529

NON TRANSFERABLE

RECEIVED OF FRESNO PACIFIC COLLEGE
THE SUM OF \$ 112.00

April 1, 1993
CT 14.05

FOR ENVIRONMENTAL HEALTH FEE TO ENGAGE IN THE ACTIVITY OF

UNDERGROUND STORAGE TANK STATE SURCHARGE
FOR THE PERIOD TO

MAILING ADDRESS

FRESNO PACIFIC COLLEGE
1717 S. CHESTNUT AVE.
FRESNO, CA 93702

COST CENTER

4890

BUSINESS I.D. NO.

22144C

** THANK YOU FOR YOUR PAYMENT **

SITE: 1818 S. WILLOW AVE.

BY GEORGE BLETH - DIRECTOR



Department of Health

George Bleth
Director

April 29, 1993

James Sleutz
Fresno Pacific College
1818 S. Willow Avenue
Fresno, CA 93702

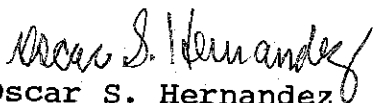
Dear Mr. Sleutz:

Subject: Underground Storage Tank Abandonment Completion
Location: 1818 S. Willow Avenue, Fresno

This letter confirms the permanent closure of underground storage tank(s) at the above site as required by the California Code of Regulations, Title 23, Article 7. The closure occurred on March 25, 1993, with the removal of two (2) underground storage tank(s). With the provision that the information provided to this office is accurate and representative of existing conditions, no further action is required at this time. The site should now be properly closed, including backfilling as necessary.

This letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present, or future operations at the site. Nor does it relieve you of the responsibility to clean up existing, additional or previously unidentified conditions at the site which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health. Please call me at (209) 445-3271 if you have any questions.

Sincerely:


Oscar S. Hernandez
Environmental Health Analyst
Environmental Health System

OSH:sja

cc: Statewide Excavation
5408 E. Jensen Avenue
Fresno, CA 93725

County of



File

Department of Health

George Bleth
Director

April 29, 1993

James Sleutz
Fresno Pacific College
1818 S. Willow Avenue
Fresno, CA 93702

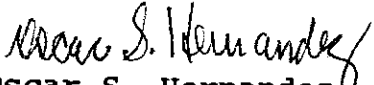
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Sincerely:


Oscar S. Hernandez
Environmental Health Analyst
Environmental Health System

OSH:sja

cc: Statewide Excavation
5408 E. Jensen Avenue
Fresno, CA 93725

APR 16 1993

ENVIRONMENTAL HEALTH

April 15, 1993

AMENDED REPORT

TL 393-0015-01

Mr. Jim Williams
Statewide Excavation, Inc.
5408 East Jensen Avenue
Fresno, California 93725

Re: Soil Sample Analysis for Underground Storage Tank (UST)
Removal

Project: Fresno Pacific College
1818 South Willow Avenue
Fresno, California

Dear Mr. Williams:

This report summarizes the analytical results of soil samples collected at the above referenced project as part of a UST removal action.

SCOPE OF SERVICES AND AUTHORIZATION

The scope of services provided by The Twining Laboratories, Inc. (Twining) included observing the physical condition of the USTs and tank excavations, collecting and analyzing soil samples, and preparation of this report. Twining services were verbally authorized by Mr. Jim Williams of Statewide on March 22, 1993.

SAMPLING PROCEDURES

The USTs were removed on March 25, 1993. Depth to the bottom of the USTs was measured and recorded after removal. The length and diameter of the USTs were measured and recorded. In addition, the USTs were examined for holes, rust, and other physical evidence that would suggest the potential for leakage. Finally, the UST excavations were examined for the presence of soil discoloration and hydrocarbon odors.

CORPORATE OFFICE:
2527 Fresno Street
Fresno, CA 93721
(209) 268-7021 • Fax 268-7126
Chemistry Fax 268-0740

MODESTO
4230 Kiernan Ave. Suite 105
Modesto, CA 95356
(209) 545-1050
Fax 545-1147

VISALIA
2521 E. Valley Oaks Drive
Visalia, CA 93292
(209) 625-1712
Fax 625-1714

BAKERSFIELD
3701 Pegasus Drive, Suite 124
Bakersfield, CA 93308
(805) 393-5088
Fax 393-4643

On March 25, 1993, two soil samples were collected from beneath the USTs by a Twining technician. Location and depth of the soil samples were specified by Mr. Oscar Hernandez, Fresno County Department of Health (FCHD) on-site representative. The soil samples were collected after a backhoe bucket removed soil from the designated depth and location in the excavation. To obtain a soil sample from the backhoe bucket, a clean brass sleeve was pushed into the soil with a soil sampling device. After soil sample collection, the ends of the brass sleeves were covered with Teflon® tape and fitted with plastic caps. The brass sleeves were then labeled, placed into a plastic bag, and immediately placed on blue ice for shipment to Twining's state certified laboratory. The samples were delivered to Twining's facility in Fresno, California on March 25, 1993. Chain-of-custody documentation, analytical laboratory reports, and a site plan showing the soil sample locations are attached.

TESTING PROCEDURES

The soil sample was analyzed for total petroleum hydrocarbons-gasoline and total petroleum hydrocarbons-diesel using the gas chromatography/flame ionization detection method and for benzene, toluene, ethylbenzene, and xylenes using U. S. EPA method 5030/8020. The analyses were requested by Mr. Hernandez of FCDH.

SUMMARY OF OBSERVATIONS AND ANALYTICAL RESULTS

The excavation for the first UST was located approximately 190 feet west of Willow Avenue on the west side of the garage. The excavation for the second UST was located approximately 150 feet west of Willow Avenue on the east side of the garage. The first UST was observed to be have numerous holes in the top and bottom of the tank. A faint odor and moderate staining were observed in the

excavation of the first UST. No holes were observed in the second UST nor were odors or stains observed in the excavation.

The USTs' product contents and dimensions are summarized in Table 1.

Table 1 Product Contents and Tank Dimensions					
Tank Number	Contents	Diameter, Feet	Length, Feet	Volume, Gallons (1)	Depth, Feet (2)
T-1	Gasoline	3	4	300	5.5
T-2	Diesel	4	4.5	500	6

(1) Approximate

(2) Depth to bottom of tank below site grade (approximate)

ANALYTICAL RESULTS

A summary of the analytical results is provided in Table 2.

Table 2 Soil Sample Analysis Results Date of Sampling: March 25, 1993								
Sample Number	Tank Number	Depth (1)	B mg/kg	T mg/kg	E mg/kg	X mg/kg	TPH-G mg/kg	TPH-D mg/kg
01	T-1	6.0	ND	ND	ND	ND	ND	NA
02	T-2	6.5	NA	NA	NA	NA	NA	ND
MDL			0.005	0.005	0.005	0.005	0.2	1

- BTEX = benzene, toluene, ethylbenzene, and xylenes
- TPH-G = total petroleum hydrocarbons - gasoline range
- TPH-D = total petroleum hydrocarbons - diesel range
- (1) = feet below site grade (approximate)
- mg/kg = milligrams per kilogram
- ND = not detected at or above MDL
- NA = not analyzed
- MDL = method detection limit

Statewide Excavation, Inc.
April 15, 1993

TL 393-0015-01
Page 4

LIMITATIONS

Twining was responsible only for soil sampling at the site and chemical testing of the soil sample collected in the field. This report completes the scope of Twining's services for this site.

CLOSING

If you should have any questions regarding this report, please do not hesitate to contact Twining at (209) 268-7021.

Sincerely,

THE TWINING LABORATORIES, INC.

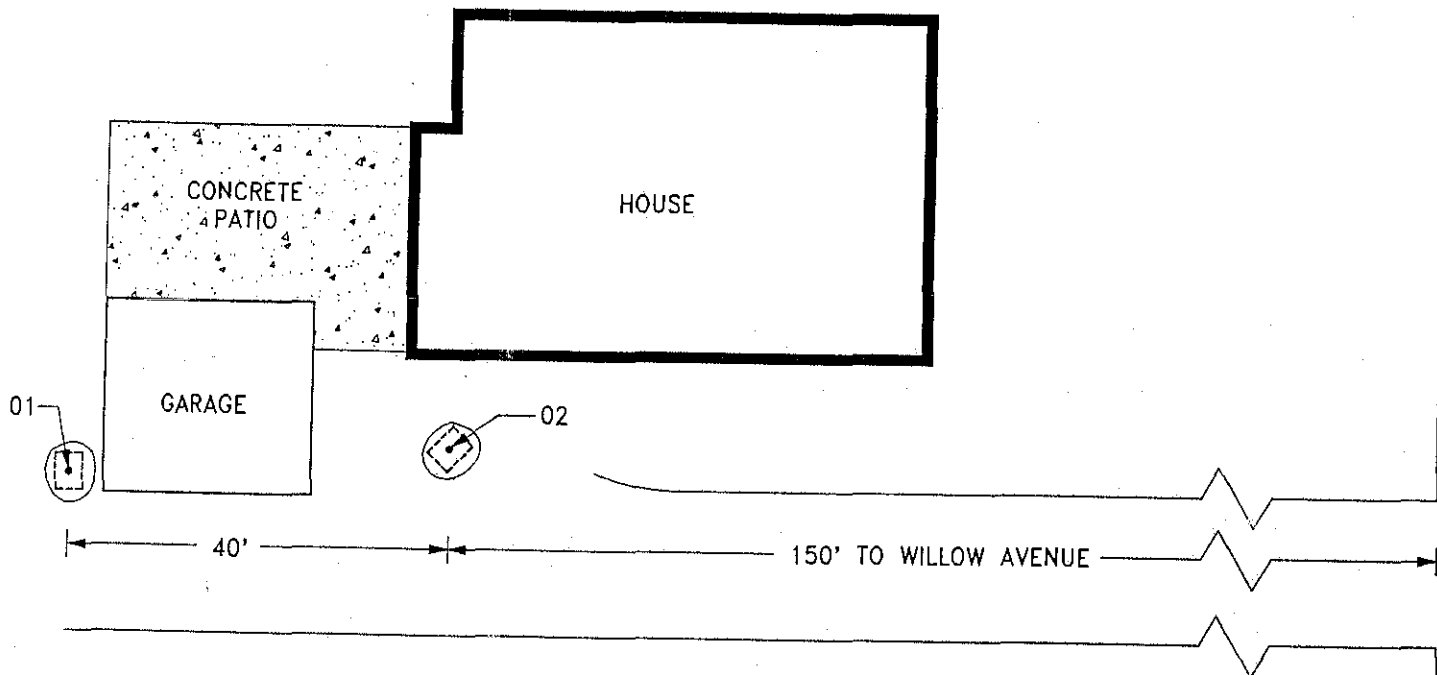
Environmental Services Division





K.D. Jones
K.D. Jones
Staff Geologist

Walt Plachta
Walt Plachta
Project Manager

KDJ:WP:lr

Attachments: Chain-of-Custody Documentation, Laboratory Report Examination No. 693-1479.1-2, and site plan



 NORTH  0 20 APPROXIMATE SCALE (FEET)	<p>EXPLANATION</p> <p> FORMER UNDERGROUND STORAGE TANK LOCATION</p> <p> APPROXIMATE SOIL SAMPLE LOCATION</p>
--	--

FORMER UNDERGROUND STORAGE TANK
 AND SOIL SAMPLE LOCATIONS
 FRESNO PACIFIC COLLEGE
 1818 SOUTH WILLOW AVENUE
 FRESNO, CALIFORNIA

DISK NO.: 17 15 1818SWIL	DATE: 3/26/93
DRAWN BY: KMB	APPROVED BY: <i>VP</i>
PROJECT NO. 393-0015	DRAWING NO. 1

 EST. 1898

THE **TWINING**
 LABORATORIES, INC.

- FRESNO
- MODESTO
- VISALIA
- BAKERSFIELD



The Twining Laboratories, Inc.

Since 1898

Geotechnical and Environmental Consultants • Engineering and Chemical Laboratories

REPORT DATE : April 2, 1993
EXAMINATION NO.: 693-1479.1-2

PROJECT MGR: W. Plachta

CLIENT : Statewide Excavation Inc.
5408 E. Jensen Ave.
Fresno, CA 93725

ATTENTION : Jim Williams

PROJECT NAME : Fresno Pacific College

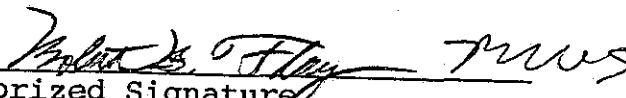
TL # : 393-0015

DATE SAMPLED : 03-25-93 by K. Rank
DATE RECEIVED : 03-25-93 at 1420 from K. Rank

The Twining Laboratories is accredited by the State of California Department of Health Services for the analysis of Drinking Water, Wastewater and Hazardous Waste under Certificate No. 1371.

In accordance with your instructions, the samples submitted were analyzed for the components specified. All samples analyzed were submitted in good condition. The analytical results are enclosed on the following pages.

Please contact us if you have any questions concerning the analyses or results. Thank you for letting us serve you.


Authorized Signature
The Twining Laboratories, Inc.
Chemistry Division

RBF:ked

REPORT DATE : April 2, 1993
EXAMINATION NO.: 693-1479.1

PROJECT MGR: W. Plachta
PAGE 1 of 2

CLIENT : Statewide Excavation Inc.

PROJECT NAME : Fresno Pacific College

TL # : 393-0015

DATE SAMPLED : 03-25-93 at 1300 by K. Rank
DATE RECEIVED : 03-25-93 at 1420 from K. Rank

DATE PREPARED : 03-30-93
DATE ANALYZED : 03-30-93

ANALYZED BY : S. Singh
REVIEWED BY : B. Stafford

SAMPLE TYPE : Soil
SAMPLE IDENTIFICATION: 01

CONSTITUENT	RESULT (mg/kg)	MDL (mg/kg)	METHOD
Benzene	ND	0.005	8020
Toluene	ND	0.005	8020
Ethylbenzene	ND	0.005	8020
Xylenes	ND	0.005	8020
TPH-Gasoline Range	ND	0.2	GC/FID

NOTES:

Preparation (BTEX & TPH-Gasoline): 5030

TPH : Total Petroleum Hydrocarbons
mg/kg: milligrams per kilogram (parts per million)
MDL : Method Detection Limit
ND : None Detected

The Twining Laboratories, Inc.

Fresno Modesto Visalia Bakersfield

REPORT DATE : April 2, 1993
EXAMINATION NO.: 693-1479.2

PROJECT MGR: W. Plachta
PAGE 2 of 2

CLIENT : Statewide Excavation Inc.

PROJECT NAME : Fresno Pacific College

TL # : 393-0015

DATE SAMPLED : 03-25-93 at 1315 by K. Rank
DATE RECEIVED : 03-25-93 at 1420 from K. Rank

DATE PREPARED : 03-29-93
DATE ANALYZED : 04-01-93

ANALYZED BY : B. Meadows
REVIEWED BY : B. Stafford

SAMPLE TYPE : Soil
SAMPLE IDENTIFICATION: 02

CONSTITUENT	RESULT (mg/kg)	MDL (mg/kg)	METHOD
TPH-Diesel Range	ND	1	GC/FID

NOTES:

Preparation (TPH-Diesel): 3540

TPH : Total Petroleum Hydrocarbons
mg/kg: milligrams per kilogram (parts per million)
MDL : Method Detection Limit
ND : None Detected

The Twining Laboratories, Inc.

Fresno Modesto Visalia Bakersfield

Quality Control Report
for
Hydrocarbons (BTEX, TPH-G, TPH-D)

Analyzed By: S. Singh/B. Meadows Reviewed By: R. Stafford

QC Sample ID: 033093 -S-BTEX Spike Level: BTEX 0.05ppm
033093 -S-TPHG TPHG 0.5 ppm
032993 -S-TPHD TPHD 10.0 ppm

Sample Matrix: Soil Spiked Sample ID: Spiking Soil

Quality Control Report for Exam Number: 693-1479.1-2

Constituent	Method Blank (mg/kg)	Matrix Spike (% Rec)	Matrix	Spike Range
			Dup (% Rec)	
Benzene	ND	81	81	0
Toluene	ND	96	90	6
Ethylbenzene	ND	97	90	7
Xylenes	ND	95	86	9
TPH-Gasoline Range	ND	93	97	4
TPH-Diesel Range	ND	87	79	8

Method Blank: A method blank demonstrates the presence or absence of contamination in the analytical procedure.

Matrix Spike and Matrix Spike Duplicate: A matrix spike is a sample to which a known amount of analyte has been added. The percent recovery and percent recovery difference of the matrix spike and the matrix spike duplicate are analyzed to measure the accuracy and precision of the analytical procedure.

NOTES:

TPH: Total Petroleum Hydrocarbons
 ND : None Detected
 NA : Not Applicable

The Twining Laboratories, Inc.

Fresno Modesto Visalia Bakersfield

093-1479-2



THE TWINING LABORATORIES, INC.
2527 Fresno Street, Fresno, CA 93721
(209) 268-7021

Project Name Fresno Pacific College
Address 1717 S. Chestnut Ave
Fresno California
Mgr. Walt Plachta TL# 393-0015

Chain-of-Custody and Analysis Request Record

Date March 25, 1993
Page 1 of 1

Copies To: _____

Report To:
Client Name Statewide Excavation Inc
Address 5408 E. Jensen Ave.
Fresno, California 93725

Bill To: _____

Contact Name Jim Williams
Phone _____
Contract/PO# _____
Sampler Name Kenneth Rank
(Print)

Expected Turnaround:
 ROUTINE RUSH VERBAL* RUSH REPORT*
*Additional Fees Apply
Specify Date: ____/____/____
 FAX # _____

Analysis Requested

Benzene
Toluene
Ethylbenzene
Xylenes
TPH-G
TPH-D(D)

Lab Due Date
4-1-93

Lab ID#	Client Sample ID	Sample Date/Time	Sample Type	Size/Type of Container	Benzene	Toluene	Ethylbenzene	Xylenes	TPH-G	TPH-D(D)	Preservation/Handling	Location
1	01	3-25-93 1:00	SOIL	1/2 by 6-inch brass	X	X	X	X			Ice chest	
2	02	" 1:15	"	" " " "					X		"	

SAMPLES RECEIVED
IN GOOD CONDITION
IN HOUSE

Each hazardous sample submitted for analysis will be charged a hazardous waste disposal fee. Clients that retrieve hazardous samples within 30 days of the analytical report date will be refunded any disposal fees.

For Water samples, please check one of the following:
 Drinking Water
 Waste Water
 Ground Water (wells)
 Surface Water (rivers, lakes)

Comments: _____

Lab ID#	Date/Time	Location
601		
602	10:50	
603	3/25/93	
604		

Relinquished By
Signature Kenneth Rank
Printed Kenneth Rank
Company Twining
Date/Time 3-25-93 2:20

Delivered By
Signature Kenneth Rank
Printed Kenneth Rank
Company Twining
Date/Time 3-25-93 2:20

Received By
Signature Walt Plachta
Company _____
Date/Time 3-25-93
Log In Date/Time 14:10

Received By
Signature _____
Company _____
Date/Time _____
Log In Date/Time _____



The Twining Laboratories, Inc.

RECEIVED
APR 16 1993

Since 1898

BAKERSFIELD
FRESNO
MODESTO
VISALIA

LETTER OF TRANSMITTAL

ENVIRONMENTAL HEALTH

TO Fresno County Health Department
P.O. Box 11867
Fresno, CA 93775

DATE	4/15/93	Job No.	393-0015-01
ATTN:	Mr. Oscar Hernandez		
RE:	Amended Report		
1818 South Willow, Fresno, CA			

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:

- | | | | |
|---|--|--------------------------------|----------------------------------|
| <input type="checkbox"/> Drawings | <input type="checkbox"/> Specifications | <input type="checkbox"/> Plans | <input type="checkbox"/> Samples |
| <input type="checkbox"/> Copy of letter | <input type="checkbox"/> Invoices | <input type="checkbox"/> | |
| <input type="checkbox"/> Brochures | <input checked="" type="checkbox"/> Copy of Report | | |

COPIES	DATE	NO.	DESCRIPTION
1	4/15/93	393-0015-01	Amended Report - Soil Sample Analysis for Underground Storage Tank Removal

RECEIVED
APR 16 1993

THESE ARE TRANSMITTED as checked below:

ENVIRONMENTAL HEALTH

- | | | |
|--|---|---|
| <input type="checkbox"/> For approval | <input type="checkbox"/> Approved as submitted | <input type="checkbox"/> Resubmit _____ copies for approval |
| <input checked="" type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit _____ copies for distribution |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Returned for corrections | <input type="checkbox"/> For Signature |
| <input type="checkbox"/> For review and comment | | |

REMARKS

Enclosed please find a copy of the amended report for the above-referenced project. If you have any questions regarding the report, please feel free to contact me at the Fresno office.

COPY TO _____

Oscar: The only thing changed is the site address

SIGNED: *Walt Plachta*
Walt Plachta

If enclosures are not as noted, kindly notify us at once*

2527 Fresno Street, P.O. Box 1472
Fresno, California 93716
(209) 268-7021 Fax (209) 268-7126

2521 E. Valley Oaks Drive
Visalia, California 93291
(209) 625-1712 Fax (209) 625-1714

4230 Kiernan Avenue, Suite 105
Modesto, California 95356
(209) 545-1050 Fax (209) 545-1147

3701 Pegasus Drive, Suite 124
Bakersfield, California 93308
(805) 393-5088 Fax (805) 393-4643

UNDERGROUND STORAGE TANK ABANDONMENT INSPECTION REPORT

FRESNO COUNTY DEPARTMENT OF HEALTH-ENVIRONMENTAL HEALTH SYSTEM

Post Office Box 11867, Fresno, California 93775
1221 Fulton Mall--(209)445-3271

DF

Site Information		Date	3-25-93	
Facility	FRESNO PACIFIC COLLEGE		Site I.D.	93040
Address	1818 S. WILLOW AVE., FRESNO City		PR#:	
			Zip	93702

Tank Information	300	300	Abandonment in place	Removal	XX
Tank#/size:	1. 3127 / 500	2. 3128 / 500	3.	4.	5.
	GAS	DIESEL			

Inspection Information	Y/N	Inspection Information	Y/N
Tank(s) completely emptied	YES	Groundwater/Product in excavation(circle one)	NO
Tank(s) cleaned and waste manifested	YES	Approved abandonment in place	N/A
Tank(s) properly purged/LEL below 5%	YES	A & B forms completed and submitted	YES
All piping removed	YES	Samples taken by: X Kenneth Park	

Soil discoloration and its location(s): NO OIL + SOIL NOT DISCOLORED

Tank condition(describe): TANK # 3127 500 G - VERY RUSTED, SLIGHTLY PIPED, NO VISIBLE HOLES
TANK # 3128 300 D - VERY RUSTED, SLIGHTLY PIPED, NO VISIBLE HOLES

Notes:

Plot Key

X = Sample location
T_x = Tank number
S_y = Sample number
D' = Depth below grade(ft)
Note the depth of sample. eg.: S_yD'

Analysis/Sample numbers

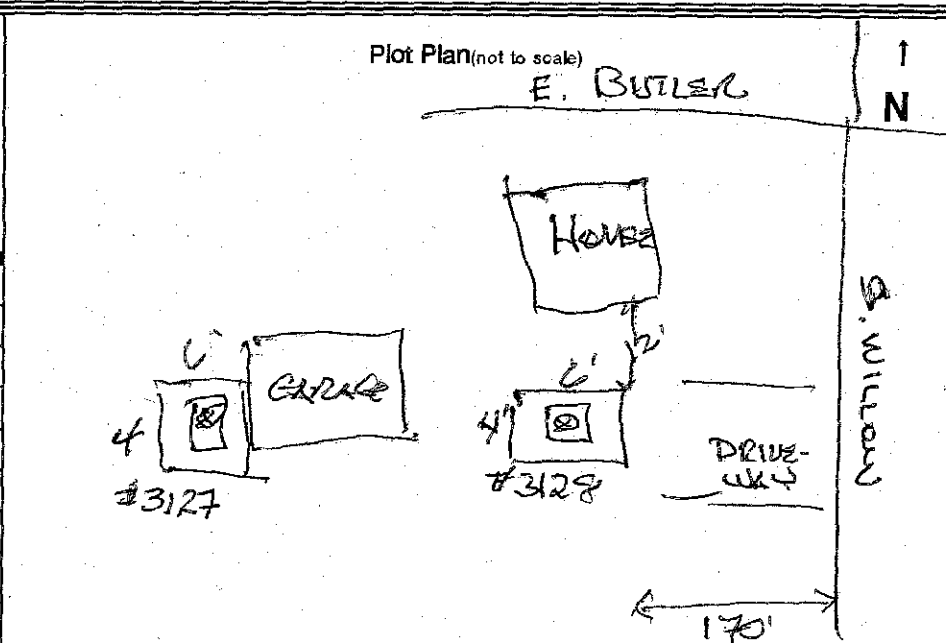
TPH(Gas) & BTXE - AT 8' - NO OIL + NO DISCOLORATION

TPH(Diesel) AT 7.5' NO OIL + NO DISCOLORATION

EPA 418.1/

Other:

Note: TPH by DHS-GC/FID(LUFT), BTXE by 8020



Analyst's Signature Owner/Representative's Signature, Title

CONTRACTOR CERTIFIES PROPER DECONTAMINATION OF TANKS:



OIL CONSERVATION SERVICE INC.

No 594

ENVIRONMENTAL SERVICES 3256 N. MARKS AVE. FRESNO, CA 93722-4919 (209) 485-5495 (209) 673-0622 FAX (209) 485-5497

CONSERVATION THRU RECYCLING

ENVIRONMENTAL PROTECTION AGENCY I.D. NO. CAD 981 428 022

DEPT. OF HEALTH SERVICES HAZARDOUS WASTE HAULER REG. NO. 1943

TANK TEST CERTIFICATION

Date: 03/25/93 Job No.: Tank No.: 3127 Tank Size: 300 (550) Prod. Uni. Gas [] Held: Lead Gas [] Diesel [x] Waste Oil [] Other []

EPA ID No.: CAC 000 788 832 Generator: FRESNO PACIFIC COLLEGE Address: 1717 S CHESTNUT AV City: FRESNO Zip: 93702

Client: STATEWIDE EXCAV Phone: 209-237-7178 Address: 5408 E JENSEN City: FRESNO Zip: 93725

Table with 4 columns: Test No., Time, LEL, Initial. Contains 5 rows of test data.

O.C.S. Inc. certifies that at the time that this tank was tested by us it was free of flammable vapors. It may not remain vapor free. Treat this container with extreme caution, it may contain explosive gases.

DO NOT EXPOSE THIS CONTAINER TO FLAMES, SPARKS OR EXCESSIVE HEAT.

DO NOT CUT OR WELD ON THIS TANK.

Generator's Signature: Contractor's Signature: County of: FRESNO CO. - E.H.S. County Inspector's Signature: Oscar Hernandez



OIL
CONSERVATION
SERVICE
INC.

No 593

ENVIRONMENTAL SERVICES

3256 N. MARKS AVE.
FRESNO, CA 93722-4919
(209) 485-5495
(209) 673-0622
FAX (209) 485-5497

CONSERVATION
THRU
RECYCLING

ENVIRONMENTAL PROTECTION AGENCY
I.D. NO. CAD 981 428 022

DEPT. OF HEALTH SERVICES
HAZARDOUS WASTE HAULER
REG. NO. 1943

TANK TEST CERTIFICATION

Date: 03/25/93 Job No.: _____ Tank No.: 3128 Tank Size: 550
Manifest No.: 92364542 Invoice No.: 12560 Prod. Uni. Gas
Held: Lead Gas
Diesel
Waste Oil
Other _____

EPA ID No.: CAC 000 788 832
Generator: FRESNO PACIFIC COLLEGE Phone: 209-453-2089
Address: 177 S CHESTNUT AVE City: FRESNO Zip: 93702

Client: STATEWIDE EXCAV Phone: 209-237 7178
Address: 5408 E JENSEN PARK, 144 City: FRESNO Zip: 93725

Test No. <u>1</u>	Time: <u>10:00</u>	LEL: <u>50</u> %	Initial: <u>A</u>
Test No. <u>2</u>	Time: <u>10:45</u>	LEL: <u>0</u> %	Initial: <u>A</u>
Test No. <u>3</u>	Time: <u>11:25</u>	LEL: <u>0</u> %	Initial: <u>A</u>
Test No. <u>4</u>	Time: _____	LEL: _____ %	Initial: _____
Test No. <u>5</u>	Time: _____	LEL: _____ %	Initial: _____

O.C.S. Inc. certifies that at the time that this tank was tested by us it was free of flammable vapors. It may not remain vapor free. Treat this container with extreme caution, it may contain explosive gases.

DO NOT EXPOSE THIS CONTAINER TO FLAMES, SPARKS OR EXCESSIVE HEAT.

DO NOT CUT OR WELD ON THIS TANK.

Generator's Signature: [Signature]
Contractor's Signature: [Signature]
County of: Fresno Co. - C.A.S.
County Inspector's Signature: [Signature]

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM A



COMPLETE THIS FORM FOR EACH FACILITY/SITE

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input checked="" type="checkbox"/> 7 PERMANENTLY CLOSED SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY SITE CLOSURE	

I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMPLETED)

DBA OR FACILITY NAME FRESNO PACIFIC COLLEGE		NAME OF OPERATOR C/O JAMES SLEUTZ		
ADDRESS 1818 S. WILLOW AVE.		NEAREST CROSS STREET BUTLER AVE.	PARCEL # (OPTIONAL)	
CITY NAME FRESNO		STATE CA	ZIP CODE 93702	SITE PHONE # WITH AREA CODE (None)
<input checked="" type="checkbox"/> BOX TO INDICATE <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> LOCAL-AGENCY DISTRICTS <input type="checkbox"/> COUNTY-AGENCY <input type="checkbox"/> STATE-AGENCY <input type="checkbox"/> FEDERAL-AGENCY				
TYPE OF BUSINESS		<input type="checkbox"/> 1 GAS STATION	<input type="checkbox"/> 2 DISTRIBUTOR	<input type="checkbox"/> 3 FARM
		<input type="checkbox"/> 4 PROCESSOR	<input checked="" type="checkbox"/> 5 OTHER	<input type="checkbox"/> IF INDIAN RESERVATION OR TRUST LANDS
		# OF TANKS AT SITE 0	E. P. A. I. D. # (optional) CAC 000 789932	

EMERGENCY CONTACT PERSON (PRIMARY)

EMERGENCY CONTACT PERSON (SECONDARY) - optional

DAYS: NAME (LAST, FIRST) SLEUTZ JAMES		PHONE # WITH AREA CODE (209) 453-2089	DAYS: NAME (LAST, FIRST)	
NIGHTS: NAME (LAST, FIRST)		PHONE # WITH AREA CODE	NIGHTS: NAME (LAST, FIRST)	
		PHONE # WITH AREA CODE		

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

NAME FRESNO PACIFIC COLLEGE		CARE OF ADDRESS INFORMATION C/O JAMES SLEUTZ		
MAILING OR STREET ADDRESS 1717 S. CHESTNUT AVE.		<input checked="" type="checkbox"/> box to indicate	<input type="checkbox"/> INDIVIDUAL	<input type="checkbox"/> LOCAL-AGENCY
CITY NAME FRESNO		<input checked="" type="checkbox"/> CORPORATION	<input type="checkbox"/> PARTNERSHIP	<input type="checkbox"/> COUNTY-AGENCY
		STATE CA	ZIP CODE 93702	PHONE # WITH AREA CODE (209) 453-2089

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

NAME OF OWNER FRESNO PACIFIC COLLEGE		CARE OF ADDRESS INFORMATION C/O JAMES SLEUTZ		
MAILING OR STREET ADDRESS 1717 S. CHESTNUT AVE.		<input checked="" type="checkbox"/> box to indicate	<input type="checkbox"/> INDIVIDUAL	<input type="checkbox"/> LOCAL-AGENCY
CITY NAME FRESNO		<input checked="" type="checkbox"/> CORPORATION	<input type="checkbox"/> PARTNERSHIP	<input type="checkbox"/> COUNTY-AGENCY
		STATE CA	ZIP CODE 93702	PHONE # WITH AREA CODE (209) 453-2089

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Call (916) 323-9555 if questions arise.

TY (TK) HQ **44** - [] [] [] [] [] [] [] [] [] []

V. PETROLEUM UST FINANCIAL RESPONSIBILITY - (MUST BE COMPLETED) - IDENTIFY THE METHOD(S) USED

<input checked="" type="checkbox"/> box to indicate	<input checked="" type="checkbox"/> SELF-INSURED	<input type="checkbox"/> 2 GUARANTEE	<input type="checkbox"/> 3 INSURANCE	<input type="checkbox"/> 4 SURETY BOND
	<input type="checkbox"/> 5 LETTER OF CREDIT	<input type="checkbox"/> 6 EXEMPTION	<input type="checkbox"/> 99 OTHER	

VI. LEGAL NOTIFICATION AND BILLING ADDRESS

Legal notification and billing will be sent to the tank owner unless box I or II is checked.

CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOTIFICATIONS AND BILLING: I. II. III.

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) JIM WILLIAMS	APPLICANT'S TITLE CONTRACTOR OWNER	DATE MONTH/DAY/YEAR MAR. 25, 1993
---	--	---

COUNTY # 10	JURISDICTION # [] [] [] []	FACILITY # [] [] [] [] [] [] [] [] [] []
LOCATION CODE - OPTIONAL	CENSUS TRACT # - OPTIONAL 1405	SUPVISOR - DISTRICT CODE - OPTIONAL

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE PERMIT APPLICATION - FORM B, UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input checked="" type="checkbox"/> PERMANENTLY CLOSED ON SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input checked="" type="checkbox"/> 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: FRESNO PACIFIC COLLEGE 1818 S. WILLOW AVE FRESNO, CA

I. TANK DESCRIPTION COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN
A. OWNER'S TANK I.D.# <u>UNKNOWN</u>
B. MANUFACTURED BY: <u>UNKNOWN</u>
C. DATE INSTALLED (MO/DAY/YEAR) <u>UNKNOWN</u>
D. TANK CAPACITY IN GALLONS: <u>500</u>

II. TANK CONTENTS IF A-1 IS MARKED, COMPLETE ITEM C.			
A. <input checked="" type="checkbox"/> 1 MOTOR VEHICLE FUEL	<input type="checkbox"/> 4 OIL	B. <input checked="" type="checkbox"/> 1 PRODUCT	C. <input type="checkbox"/> 1a REGULAR UNLEADED
<input checked="" type="checkbox"/> 2 PETROLEUM	<input type="checkbox"/> 80 EMPTY	<input type="checkbox"/> 2 WASTE	<input checked="" type="checkbox"/> 3 DIESEL
<input type="checkbox"/> 3 CHEMICAL PRODUCT	<input type="checkbox"/> 95 UNKNOWN		<input type="checkbox"/> 4 GASAHOL
			<input type="checkbox"/> 5 JET FUEL
			<input type="checkbox"/> 6 AVIATION GAS
			<input type="checkbox"/> 7 METHANOL
			<input type="checkbox"/> 99 OTHER (DESCRIBE IN ITEM D. BELOW)
D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED			C. A. S.#:

III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E				
A. TYPE OF SYSTEM	<input type="checkbox"/> 1 DOUBLE WALL	<input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER	<input type="checkbox"/> 95 UNKNOWN	
	<input checked="" type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 4 SECONDARY CONTAINMENT (VAULTED TANK)	<input type="checkbox"/> 99 OTHER	
B. TANK MATERIAL (Primary Tank)	<input checked="" type="checkbox"/> 1 BARE STEEL	<input type="checkbox"/> 2 STAINLESS STEEL	<input type="checkbox"/> 3 FIBERGLASS	<input type="checkbox"/> 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC
	<input type="checkbox"/> 5 CONCRETE	<input type="checkbox"/> 6 POLYVINYL CHLORIDE	<input type="checkbox"/> 7 ALUMINUM	<input type="checkbox"/> 8 100% METHANOL COMPATIBLE W/FRP
	<input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 10 GALVANIZED STEEL	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER
C. INTERIOR LINING	<input type="checkbox"/> 1 RUBBER LINED	<input type="checkbox"/> 2 ALKYD LINING	<input type="checkbox"/> 3 EPOXY LINING	<input type="checkbox"/> 4 PHENOLIC LINING
	<input type="checkbox"/> 5 GLASS LINING	<input checked="" type="checkbox"/> 6 UNLINED	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER
	IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___			
D. CORROSION PROTECTION	<input type="checkbox"/> 1 POLYETHYLENE WRAP	<input checked="" type="checkbox"/> 2 COATING	<input type="checkbox"/> 3 VINYL WRAP	<input type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC
	<input type="checkbox"/> 5 CATHODIC PROTECTION	<input type="checkbox"/> 91 NONE	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER
E. SPILL AND OVERFILL	SPILL CONTAINMENT INSTALLED (YEAR) <u>N/A</u>		OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) <u>N/A</u>	

IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE				
A. SYSTEM TYPE	<input checked="" type="radio"/> 1 SUCTION	<input checked="" type="radio"/> 2 PRESSURE	<input checked="" type="radio"/> 3 GRAVITY	<input checked="" type="radio"/> 99 OTHER <u>Hand Pump</u>
B. CONSTRUCTION	<input checked="" type="radio"/> 1 SINGLE WALL	<input type="radio"/> 2 DOUBLE WALL	<input type="radio"/> 3 LINED TRENCH	<input type="radio"/> 95 UNKNOWN <input type="radio"/> 99 OTHER
C. MATERIAL AND CORROSION PROTECTION	<input checked="" type="radio"/> 1 BARE STEEL	<input type="radio"/> 2 STAINLESS STEEL	<input type="radio"/> 3 POLYVINYL CHLORIDE (PVC)	<input type="radio"/> 4 FIBERGLASS PIPE
	<input type="radio"/> 5 ALUMINUM	<input type="radio"/> 6 CONCRETE	<input type="radio"/> 7 STEEL W/ COATING	<input type="radio"/> 8 100% METHANOL COMPATIBLE W/FRP
	<input type="radio"/> 9 GALVANIZED STEEL	<input type="radio"/> 10 CATHODIC PROTECTION	<input type="radio"/> 95 UNKNOWN	<input type="radio"/> 99 OTHER
D. LEAK DETECTION	<input type="checkbox"/> 1 AUTOMATIC LINE LEAK DETECTOR	<input type="checkbox"/> 2 LINE TIGHTNESS TESTING	<input type="checkbox"/> 3 INTERSTITIAL MONITORING	<input checked="" type="checkbox"/> 99 OTHER <u>NONE</u>

V. TANK LEAK DETECTION				
<input type="checkbox"/> 1 VISUAL CHECK	<input type="checkbox"/> 2 INVENTORY RECONCILIATION	<input type="checkbox"/> 3 VADOZE MONITORING	<input type="checkbox"/> 4 AUTOMATIC TANK GAUGING	<input type="checkbox"/> 5 GROUND WATER MONITORING
<input type="checkbox"/> 6 TANK TESTING	<input type="checkbox"/> 7 INTERSTITIAL MONITORING	<input checked="" type="checkbox"/> 91 NONE	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER

VI. TANK CLOSURE INFORMATION		
1. ESTIMATED DATE LAST USED (MO/DAY/YR) <u>UNKNOWN</u>	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING <u>75</u> GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) <u>JIM WILLIAMS (c/o OWNER CONTRACTOR)</u>	DATE <u>3/25/93</u>
--	------------------------

LOCAL AGENCY USE ONLY THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW				
STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
	<u>10</u>			
PERMIT NUMBER	PERMIT APPROVED BY/DATE	PERMIT EXPIRATION DATE		

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input checked="" type="checkbox"/> 7 PERMANENTLY CLOSED ON SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input checked="" type="checkbox"/> 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: Freeport Pacific College 1819 So. Willow Ave Freeport, Ca.

I. TANK DESCRIPTION COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN	
A. OWNER'S TANK I.D.# <u>UNKNOWN</u>	B. MANUFACTURED BY: <u>UNKNOWN</u>
C. DATE INSTALLED (MO/DAY/YEAR) <u>UNKNOWN</u>	D. TANK CAPACITY IN GALLONS: <u>300</u>

II. TANK CONTENTS IF A-1 IS MARKED, COMPLETE ITEM C.			
A. <input checked="" type="checkbox"/> 1 MOTOR VEHICLE FUEL	<input type="checkbox"/> 4 OIL	B. <input checked="" type="checkbox"/> 1 PRODUCT	C. <input checked="" type="checkbox"/> 1a REGULAR UNLEADED
<input checked="" type="checkbox"/> 2 PETROLEUM	<input type="checkbox"/> 80 EMPTY	<input type="checkbox"/> 2 WASTE	<input type="checkbox"/> 1b PREMIUM UNLEADED
<input type="checkbox"/> 3 CHEMICAL PRODUCT	<input type="checkbox"/> 95 UNKNOWN		<input type="checkbox"/> 2 LEADED
D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED			E. C.A.S.#:

III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E			
A. TYPE OF SYSTEM	<input checked="" type="checkbox"/> 1 DOUBLE WALL	<input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER	<input type="checkbox"/> 95 UNKNOWN
	<input checked="" type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 4 SECONDARY CONTAINMENT (VAULTED TANK)	<input type="checkbox"/> 99 OTHER
B. TANK MATERIAL (Primary Tank)	<input checked="" type="checkbox"/> 1 BARE STEEL	<input type="checkbox"/> 2 STAINLESS STEEL	<input type="checkbox"/> 3 FIBERGLASS
	<input type="checkbox"/> 5 CONCRETE	<input type="checkbox"/> 6 POLYVINYL CHLORIDE	<input type="checkbox"/> 7 ALUMINUM
	<input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 10 GALVANIZED STEEL	<input type="checkbox"/> 95 UNKNOWN
C. INTERIOR LINING	<input type="checkbox"/> 1 RUBBER LINED	<input type="checkbox"/> 2 ALKYD LINING	<input type="checkbox"/> 3 EPOXY LINING
	<input type="checkbox"/> 5 GLASS LINING	<input checked="" type="checkbox"/> 6 UNLINED	<input type="checkbox"/> 4 PHENOLIC LINING
	IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___		
D. CORROSION PROTECTION	<input type="checkbox"/> 1 POLYETHYLENE WRAP	<input checked="" type="checkbox"/> 2 COATING	<input type="checkbox"/> 3 VINYL WRAP
	<input type="checkbox"/> 5 CATHODIC PROTECTION	<input type="checkbox"/> 91 NONE	<input type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC
		<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER
E. SPILL AND OVERFILL	SPILL CONTAINMENT INSTALLED (YEAR) <u>N/A</u>	OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) <u>N/A</u>	

IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE			
A. SYSTEM TYPE	A U 1 SUCTION	A U 2 PRESSURE	A U 3 GRAVITY
	<input checked="" type="checkbox"/> 99 OTHER <u>Hand Pump</u>		
B. CONSTRUCTION	A U 1 SINGLE WALL	A U 2 DOUBLE WALL	A U 3 LINED TRENCH
	<input checked="" type="checkbox"/> 95 UNKNOWN		A U 99 OTHER
C. MATERIAL AND CORROSION PROTECTION	A U 1 BARE STEEL	A U 2 STAINLESS STEEL	A U 3 POLYVINYL CHLORIDE (PVC)
	A U 5 ALUMINUM	A U 8 CONCRETE	A U 7 STEEL W/ COATING
	A U 9 GALVANIZED STEEL	A U 10 CATHODIC PROTECTION	A U 95 UNKNOWN
D. LEAK DETECTION	<input type="checkbox"/> 1 AUTOMATIC LINE LEAK DETECTOR	<input type="checkbox"/> 2 LINE TIGHTNESS TESTING	<input type="checkbox"/> 3 INTERSTITIAL MONITORING
			<input checked="" type="checkbox"/> 99 OTHER <u>N/A</u>

V. TANK LEAK DETECTION				
<input type="checkbox"/> 1 VISUAL CHECK	<input type="checkbox"/> 2 INVENTORY RECONCILIATION	<input type="checkbox"/> 3 VADOZE MONITORING	<input type="checkbox"/> 4 AUTOMATIC TANK GAUGING	<input type="checkbox"/> 5 GROUND WATER MONITORING
<input type="checkbox"/> 6 TANK TESTING	<input type="checkbox"/> 7 INTERSTITIAL MONITORING	<input checked="" type="checkbox"/> 91 NONE	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER

VI. TANK CLOSURE INFORMATION		
1. ESTIMATED DATE LAST USED (MO/DAY/YR) <u>UNKNOWN</u>	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING <u>5</u> GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) <u>Jim Willyard</u>	DATE <u>3/25/93</u>
---	------------------------

LOCAL AGENCY USE ONLY THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW			
STATE I.D.#	COUNTY # <u>10</u>	JURISDICTION #	TANK #
PERMIT NUMBER	PERMIT APPROVED BY/DATE	PERMIT EXPIRATION DATE	

FORM B (7-91) THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED.

THURS.
MAR. 25th
1:00 P.M. CB

FRESNO COUNTY DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH SYSTEM
P.O. BOX 11867, FRESNO, CALIFORNIA 93721
TELEPHONE (209) 445-3271
PERMIT APPLICATION FOR UNDERGROUND STORAGE TANKS

- ABANDONMENT/REMOVAL NEW CONSTRUCTION SUBSURFACE ASSESSMENT/REMEDIA
 ABANDONMENT/IN PLACE REPAIR OR REPLACE PRECISION TEST: DATE _____

SITE INFORMATION:

Site Address 1818 So. Willow Ave City FRESNO, CA Zip 93702
Facility Name FRESNO PACIFIC COLLEGE Cross Street BUTLER AVE.
Owner/Operator FRESNO PACIFIC COLLEGE Phone 453-2089
Mailing Address 1717 So. CHESTNUT AVE City FRESNO, CA Zip 93702

CONTRACTOR INFORMATION:

Company STATEWIDE EXCAVATION, INC
Address 5408 E. JEWELL AVE
City FRESNO, CA Phone 227-8537
Contractor Lic. No./Class SD3776-A

CONSULTANT INFORMATION:

Company TWIDING LABORATORIES, INC.
Address P.O. BOX 1472
City FRESNO, CA Phone 268-7021
Registration Lic. No/Type RC 4568

TANK CLEANING/TRANSPORTER INFORMATION:

Company OCF, INC.
Address 3256 D. MARKS AVE
City FRESNO, CA Phone 485-5604
Waste Transporter ID No. 1943
Tank Destination BROWN SALVAGE (CRAP)
Rinsate Manifested Tank Manifested NO

PRECISION TESTER INFORMATION:

Company _____
Address _____
City _____ Phone _____
Type of Test _____
Tester Name _____
CA State Cert. No. _____

TANK INFORMATION

PERMIT #	SIZE	PRODUCT	AGE OF TANK	PREVIOUSLY STORED MATERIAL
<u>3127</u>	<u>500</u>	<u>ULTRACAP GAS</u>	<u>15</u>	<u>ULTRACAP GAS</u>
<u>3128</u>	<u>500</u>	<u>STONE OIL</u>	<u>15</u>	<u>STONE OIL (DISPER)</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

DESCRIBE WORK TO BE PERFORMED

REMOVE TANKS AS PER F.C.E.H.D. SPECIFICATIONS.

OFFICIAL USE ONLY

(Use Reverse Side if Necessary)

Site I.D. 93040 CT 14.05 APN 473-020-285 Fee \$ 398.00 Application Date 3/19/93

NOTE: Permit expires ninety (90) days after the application date. The applicant has received, understands, and will comply with the attached conditions of this permit and any other State and local regulations.

Chris Braun
Approved by:

Charles M. Marion
Applicant Name (Please Print)

Charles M. Marion
Applicant Signature/Title



DEPARTMENT OF HEALTH
 ENVIRONMENTAL HEALTH APPLICATION
 P.O. Box 11800, Fresno, California 93775
 1221 Fulton Mall - ☐ (209) 445-3357

22144CM

PLEASE PRINT OR TYPE

Business Name Fresno Pacific College
Inspection Site Address 1818 S. Willow Ave.
Fresno CA 93702
Date of Business Commencement 3/19/93 **Business Telephone** (209) 453-2089
Billing Address Fresno Pacific College
1717 S. Chestnut Ave.
Fresno CA 93702
Business Owner Same as billing
Owner Address _____
 _____ **Telephone** _____

The Applicant hereby agrees to abide by all applicable Federal, State, and Fresno County statutes, laws, regulations, and the Fresno County Charter Ordinances and to pay all applicable Fresno County Environmental Health Permit and Inspection Fees, and late penalties, if any, which apply to the Permit which is being applied for here. PENALTIES FOR LATE PAYMENT ARE ASSESSED AT 10% PER MONTH OR FRACTION THEREOF. Notify Environmental Health of any change in the type of business activity, name, billing address, or ownership by calling 445-3357. Failure to notify Environmental Health may result in late penalties, Permit denial or revocation, and business closure. PERMITS AND FEES ARE NOT TRANSFERABLE.

Owner / Authorized Representative _____ Title _____ Date _____
 — DO NOT WRITE BELOW THIS LINE —

Record ID#	Prog Elem #	Fee/Activity Description	Billing Code	Fee
	<u>6302</u>	<u>UST - Removal 2 Tanks</u>	<u>YAMH4-B</u>	<u>\$ 286.00</u>
	<u>6800</u>	<u>UST - State Surcharge 2</u>	<u>YAMF7-2</u>	<u>\$ 112.00</u>
			Penalty Due	
Penalty Calculation:			TOTAL AMOUNT DUE	<u>\$ 398.00</u>

RETURN TO: _____ Date Left: _____ ROUTE TO: Business Envision File
 New Business Ownership Change Business Name Change Billing Address Change Other
 Close(inactive) Close(delete) Closure Date 3/19/93 Site Correction/Change Activity Change

Comments _____
Business Name _____ **Owner** _____
Inspection Site _____ **Census Tract #** 1405 **City Code** 05
Business ID # _____ **Tank #** 93040 **Permit Code** _____ **Designated Employee ID #** 1000
Application Approved By: Chris Blum **Employee ID#** 0212 **Date** 3/19/93

Business Office Use
 pd
 3-19-93
 #51204
 \$398.00
 Reg 4/1/93 JY

Envision updated by _____ Date _____
 Supervisor Review OSIA ///

TO:

COUNTY OF FRESNO

DEPARTMENT OF HEALTH
UNDERGROUND STORAGE TANK PROGRAM
P.O. Box 11867
FRESNO, CALIFORNIA 93775

GRADING PERMIT STATUS

IN CONJUNCTION WITH THE REMOVAL OF UNDERGROUND PETROLEUM STORAGE TANKS

This form is to provide the County of Fresno with information regarding the grading (or excavation/compaction) permit status relative to the proposed **removal of underground petroleum storage tanks** at the following site:

This form must be presented to Fresno County Environmental Health System **prior to** obtaining an underground storage tank abandonment permit.

Address: 1819 So. Willow Ave E
City/County: Fresno, CA
Nearest Cross Street or Road: BUTLER AVE.

A grading Permit was issued on MARCH 19, 1993 GP 3897 for this site

A grading permit **is not required** by this jurisdiction for excavation and or backfilling in conjunction with the removal of underground storage tanks at this site.

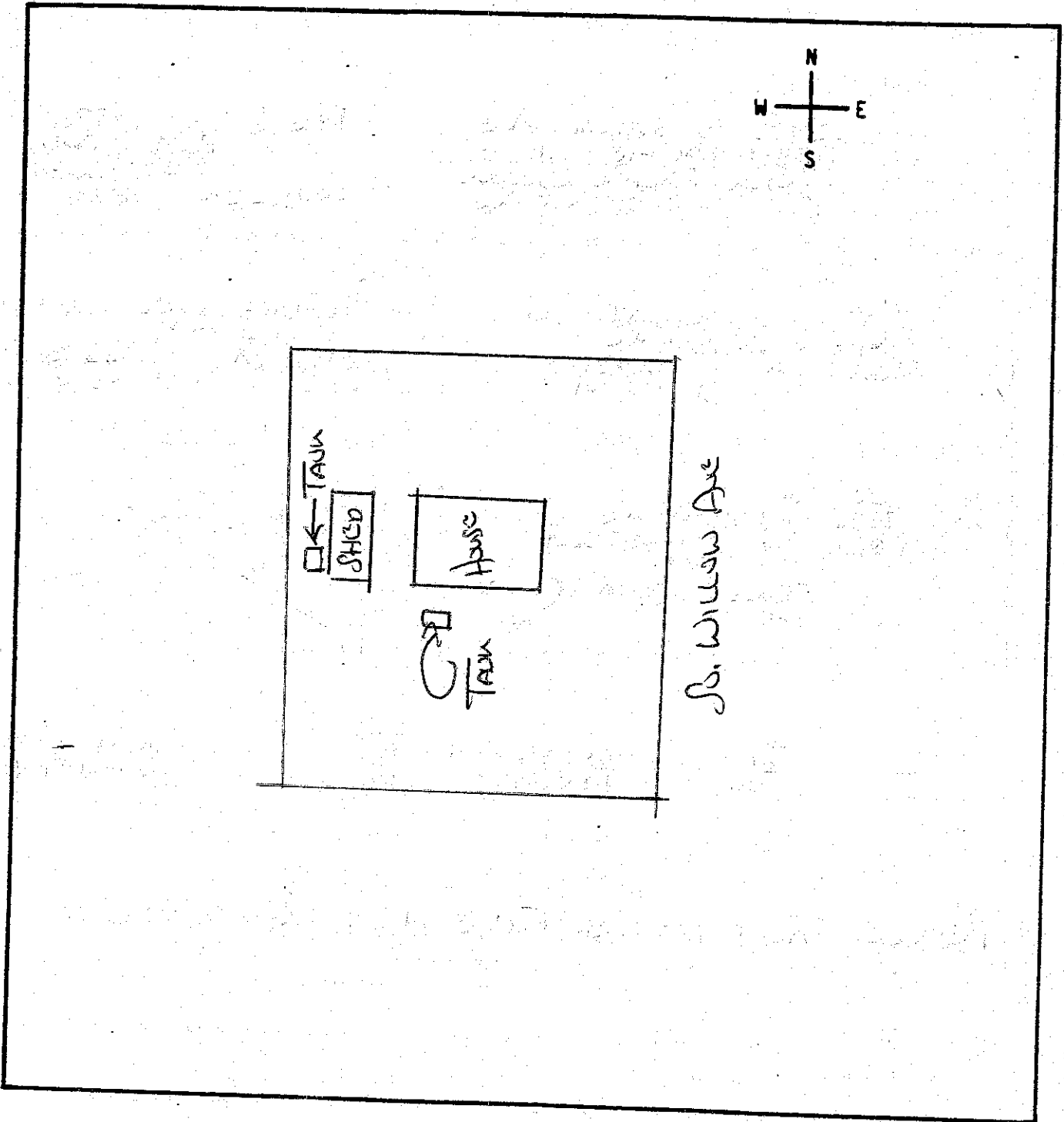
Comments:
Provide Compaction Reports - 90% or better.

CITY/COUNTY OF
Henry Griffin
Printed name of official
453-5122
Phone number

Henry Griffin
Signature of official
19 Mar 92
Date

PLOT PLAN

Please indicate the location of the following: Major building(s), tank(s) lines, dispenser island(s), streets or alleyways, approximate excavation limits, boring locations and any other relevant information that exists at the site.



Additional comments (Cont'd):

Conditions attached to permittee's copy. (CB)
A & B forms provided. (CB)

Jul

COUNTY OF FRESNO
DEPARTMENT OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH PERMIT

2021

1221 FULTON STREET/P.O. Box 11867, Fresno CA 93775-1867
559 600-3357 / EnvironmentalHealth@fresnocountyca.gov / www.fcdph.org

FRESNO, CITY OF
1910 E UNIVERSITY AVE
FRESNO CA 93703

PERMIT HOLDER IS RESPONSIBLE FOR THIS PERMIT: Renew on or before expiration date. If permit Holder does not receive notice present this Permit to the address above on or before the expiration date. Late payment penalties are assessed at 10% per month or fraction thereof. **PERMIT IS NOT TRANSFERABLE & MAY BE REVOKED FOR CAUSE.** Permit is void on change of owner. New owner must apply and pay for permit(s) prior to operation or penalties will be assessed.

REGULATED FACILITY:

CITY OF FRESNO WELL 164-1 & 164-2
1818 S WILLOW AVE
FRESNO CA 93727

Facility ID: FA0283436
Account ID: AR0034060
Issued: 7/24/2020
CERS ID#:10693465

OWNER NAME:

FRESNO, CITY OF

CT 001408

UNIFIED PROGRAM FACILITY PERMIT

This facility shall comply with all of the following:

Permit to Operate #PT0020144/PR0072534 -- 2239-HAZARDOUS MATERIALS HANDLER - WELL SITE
Permit Valid From 08/01/2020 To 07/31/2021

- Hazardous Materials Release Response Plan (HMRRP) -- Health and Safety Code, Division 20, Chapter 6.95, Article 1 (commencing with Section 25500).

David Pomaville, Director, Department of Public Health

Permit Effective from: **August 01, 2020** and expires on : **July 31, 2021**
Permits to operate and fee payments are NON-TRANSFERABLE or refundable.
Permits referenced above are valid only for this owner: FRESNO, CITY OF

THIS FORM MUST BE DISPLAYED CONSPICUOUSLY ON THE PREMISES



PRELIMINARY ENVIRONMENTAL ASSESSMENT REPORT
Planned School Site (DTSC Project Code 104750)
53 Acres Southwest of E. Church and S. Peach Avenues
Fresno, Fresno County, California

Prepared for:
Fresno Unified School District

July 12, 2016

AECOM – Fresno, California
Project No. 60483930



July 12, 2016

Mr. William Belanger, Assistant Superintendent
Facilities Management and Planning
Fresno Unified School District
4600 North Brawley Avenue
Fresno, California 93722

**Subject: Preliminary Environmental Assessment Report
Planned School Site (DTSC Project Code 104750)
53 Acres Southwest of E. Church and S. Peach Avenues
Fresno, Fresno County, California**

Dear Mr. Belanger:

AECOM Technical Services, Inc. (AECOM) has prepared the enclosed report on behalf of the Fresno Unified School District (FUSD, Client) in accordance with the scope of services presented in our signed agreement. The report presents the methods and results of a Preliminary Environmental Assessment (PEA) of the subject school site.


In accordance with your authorization, we are concurrently transmitting the document to the California Department of Toxic Substances Control for their review.

Please do not hesitate to contact us if you have any questions. We appreciate your selection of AECOM for this important project.

Sincerely,
AECOM Corporation


Stuart B. St. Clair, PE
Project Civil Engineer




Frank L. Gegunde, PG
Senior Geologist

Enclosure

c: see distribution list on next page

AECOM
1360 E. Spruce Ave., Suite 101
Fresno, CA 93720
Tel: 559-448-8222
Fax: 559-448-8233

DISTRIBUTION LIST

Mr. William Belanger Assistant Superintendent Fresno Unified School District 4600 North Brawley Avenue Fresno, California 93722	(2 bound copies, 1 CD)
Mr. Jose Luevano Northern California Schools Unit California Department of Toxic Substances Control 8800 Cal Center Drive Sacramento, California 95826-3200	(1 bound copy, 1 CD)
Mr. Scott Odell, AICP Odell Planning & Research Inc. 49370 Road 426, Suite C Oakhurst, California 93644	(1 CD)
AECOM Fresno File	(e-copy)

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B	Geophysical Survey Report
C	Boring Logs
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EXECUTIVE SUMMARY

AECOM Technical Services, Inc. (AECOM) conducted a Preliminary Environmental Assessment (PEA) of the planned 53-acre school site (the "site") located on the southwest corner of E. Church and S. Peach Avenues in the city of Fresno, Fresno County, California (Figure 1). The PEA was conducted for the Fresno Unified School District (FUSD, Client). The California Department of Toxic Substances Control (DTSC) provided regulatory oversight for the PEA.

The site has been active cropland traversed by an irrigation canal since the 1930s or earlier. Two older houses are still located on the site, and three former houses have been demolished. Historical records indicate that a former house compound located east of the canal had an underground storage tank (UST), and no removal documentation has been found. The eastern portion of the site is now used as a school campus constructed entirely of portable buildings. Two of these portable buildings were constructed in 1985, and the remainder in 1993. A dry irrigation well is located in the southern portion of the school campus, and a second irrigation well is located east of the canal. A soil stockpile is located near the southern boundary of the site, east of the canal. The soil stockpile is assumed to have been generated by grading activities on the site.

The PEA field investigation was performed in April 2016. East of the canal, where a UST was possibly located near a former barn and shop, a geophysical survey was conducted to assess the actual UST location. The geophysical subconsultant concluded that no USTs were positively detected within the survey area. Two anomalous areas were identified as potential locations of a former UST. Based on these results, active soil gas samples were collected at these two locations at two depths, and the samples were submitted to an environmental laboratory for analysis of volatile organic compounds (VOCs). Soil samples were collected at numerous on-site locations and submitted to environmental laboratories for analysis of various chemicals of potential concern (COPCs). Some of the soil samples were collected in accordance with the Incremental Sampling Methodology (ISM).

A human health screening evaluation was conducted using the laboratory analytical results. The maximum detected concentrations in soil and soil gas were compared to residential soil and air screening levels established by DTSC and the U.S. Environmental Protection Agency (USEPA).

The PEA findings are summarized as follows:

- Various naturally occurring metals were detected in the soil samples (Table 6), comprising arsenic, barium, chromium, cobalt, copper, lead, nickel, vanadium, zinc. The maximum detected concentrations of these metals are shown on Table 6. Except for arsenic and lead, all of these maximum concentrations are within the typical ranges of background concentrations in the site vicinity. One highly regarded California study of background metal concentrations included four soil samples collected in Fresno County [Kearney Foundation, 1996]. The ranges of background metal concentrations detected in these four Fresno County soil samples are presented in the fifth column of Table 13 for

comparison to on-site soil conditions. These ranges of background concentrations are supported by numerous other site investigations performed throughout Fresno County. Except for arsenic and lead, the maximum metals concentrations detected in on-site soil samples were in all cases within the ranges of reported background concentrations, and in many cases were less than the minimum reported background concentrations (Table 13). For arsenic and lead, the calculated 95-percent upper confidence limit of the mean (95%-UCL) concentrations are within the ranges of reported background concentrations. Metals were not included as COPCs for the human health screening evaluation, because the maximum detected, or calculated 95%-UCL, concentration were well within, or below, the range of regional background concentrations.

- Eight organochlorine pesticides (OCPs) were detected in one or more soil samples (Table 7), comprising alpha-chlordane, gamma-chlordane, total chlordane, 4,4'-DDE, 4,4'-DDT, dieldrin, heptachlor, and heptachlor epoxide. The maximum detected concentrations of these OCPs are shown on Table 13. Based on the elevated chlordane concentration in composite soil sample AB-0.5', consisting of samples from locations EH-1AB, EH-2AB, EH-3AB, and EH-4AB near the existing house on parcel 481-090-016 (west of the canal), followup OCP analyses were conducted on the four discrete samples and also on discrete surface soil sample EH-12-0.5' collected approximately 8 feet east of the house adjacent to the concrete sidewalk that extends along the eastern side of the house (Table 7). In addition, followup soil sampling was performed at four additional locations (EH-14, EH-15, EH-16, and EH-17) adjacent to the east side of the house (Figure 12). Two of these discrete samples (EH-2AB-0.5' and EH-3AB-0.5') contained chlordane concentrations exceeding the DTSC-recommended residential screening level of 430 µg/kg, but none of the followup soil samples contained chlordane concentrations exceeding the screening level (Table 7). The maximum detected chlordane concentration was 1,670 µg/kg, which is somewhat higher than the screening level, but still corresponds to a cancer risk within the range that has been considered acceptable by DTSC for other California school sites. Chlordane was not detected in the composite subsurface soil sample AB-2.5', which consisted of subsurface soil samples collected at 2.5 feet bgs at the four locations around the house. Based on the analyzed soil samples, it appears that only a limited volume of soil adjacent to the house contains chlordane at concentrations exceeding the residential screening level.
- Ethylbenzene and total xylenes were detected in one soil sample (SP-1-10.0') collected at a depth of 10 feet bgs adjacent to one of the seepage pits on parcel 481-090-027, east of the canal (Table 8). The maximum detected concentrations of these VOCs are shown on Table 13. None of these maximum concentrations exceeded, or even approached, the carcinogenic or noncancer screening levels (Table 15), indicating that no significant concern for VOCs in soil is present.
- Arsenic, lead, and six OCPs were detected in the ISM replicate samples collected in the two decision units (DUs) east of the canal (Table 9). The detected arsenic and lead concentrations are within the ranges of typical background concentrations. The maximum chlordane concentration in the first DU was 1.1 mg/kg, which is somewhat

higher than the DTSC residential soil screening level of 0.43 mg/kg, but still corresponds to a cancer risk within the range that has been considered acceptable by DTSC for other California school sites.

- Eight VOC analytes were detected in one or more active-soil-gas samples (Table 10). The maximum detected concentrations of these VOCs are shown on Table 14. After multiplying by the DTSC default attenuation factor for future residential buildings of 0.001, the predicted indoor air concentrations did not exceed, or even approach, the carcinogenic or noncancer screening levels (Table 15), indicating that no significant concern for VOCs in soil gas is present.

Based on the findings summarized above, AECOM recommends that DTSC approve this PEA Report with a no-further-action determination.

The following issues were outside the scope of the PEA and need to be addressed separately by FUSD:

- The PEA addressed the potential for lead-based paint migration to surface soils located exterior to existing on-site structures. However, the PEA did not address the possibility that hazardous materials, such as lead-based paint, asbestos-containing materials, or PCBs, may be present within the building materials themselves. Depending upon the plans for these structures, further assessment of this possibility may be necessary to meet other regulatory requirements outside the PEA process.

1.0 INTRODUCTION

This report presents the methods and results of a Preliminary Environmental Assessment (PEA) of the planned 53-acre school site (the “site”) located at the southwest corner of East Church and South Peach Avenues in Fresno, Fresno County, California (Figure 1). The PEA was conducted by AECOM Technical Services, Inc. (AECOM) for the Fresno Unified School District (FUSD, Client). The FUSD entered into an Environmental Oversight Agreement (EOA) with the California Environmental Protection Agency (Cal/EPA), Department of Toxic Substances Control (DTSC). In accordance with the EOA, DTSC provided regulatory oversight for the PEA, which was conducted to fulfill the requirements of California Education Code section 17213.1. This report has been revised to address comments on the draft report that were provided by DTSC in an electronic mail message dated July 8, 2016.

This report was prepared in accordance with DTSC guidelines, as detailed in the PEA Guidance Manual [DTSC, 2015] and supplemental written guidelines for conducting PEAs of planned K-12 school sites. Project-specific direction was provided by the DTSC project manager, Mr. Jose Luevano, in the Sacramento office. The PEA was conducted in accordance with the PEA Workplan for the site [AECOM, 2016], which was approved by DTSC in a letter to FUSD dated March 30, 2016.

This report is organized as follows:

- The Executive Summary briefly presents the PEA methods and results.
- Section 1.0 presents an introduction to the project.
- Section 2.0 presents the objective and scope of the project.
- Section 3.0 presents the site location and description.
- Section 4.0 presents background information regarding the site.
- Section 5.0 presents the environmental setting of the site.
- Section 6.0 presents the potential problem addressed by this PEA.
- Section 7.0 presents the sampling activities and results.
- Section 8.0 presents the human health screening evaluation.
- Section 9.0 presents public participation information.
- Section 10.0 presents project quality assurance/quality control (QA/QC) information.
- Section 11.0 describes health and safety plan implementation.
- Section 12.0 describes variances from the approved PEA Workplan.
- Section 13.0 presents conclusions and recommendations.
- Section 14.0 presents limitations of this report.
- Section 15.0 presents relevant references.
- Tables, figures, and appendices are presented after Section 15.0.

2.0 OBJECTIVE AND SCOPE

The objective of the PEA was to evaluate whether current or past hazardous material management practices at the site have resulted in a release of hazardous materials that poses a threat to public health or the environment. To meet this objective, the PEA included the following scope of work:

- Evaluating available information for indications of the past use, storage, disposal, or release of hazardous wastes/substances at the site.
- Preparing the PEA Workplan that summarized existing site data and presented a proposed field sampling plan, quality assurance plan, and health and safety plan.
- Evaluating through a field sampling and analysis program the nature and general extent of hazardous materials present in environmental media at the site.
- Estimating the potential threat to public health posed by hazardous materials at the site using a residential land-use scenario.
- Preparing this report summarizing the rationale, methods, and findings of the investigation.

3.0 SITE LOCATION AND DESCRIPTION

The site is located southwest of the intersection of E. Church and S. Peach Avenues in the city of Fresno, Fresno County, California (Figure 1). The site consists of five parcels having Fresno County Assessor's Parcel Numbers (APNs) 481-090-16, -18, -23ST, -27, and -28 and an approximately 900 foot long section of the Central Canal operated by the Fresno Irrigation District (FID). The assessor's map is provided in Appendix A. The site is located in the southeast quarter of Section 18, Township 14 South, Range 21 East, Mount Diablo Baseline and Meridian. A Site map is provided as Figure 2, showing the locations of two existing irrigation wells and other on-site features.

Parcel 481-090-16 is owned by Donald and Joyce Shafer and has a house on it. The street address is 5126 E. Church Avenue.

Parcel 481-090-18 is owned by Curtis Thiesen and has a house on it. The street address is 5120 E. Church Avenue.

Parcel 481-090-23ST is owned by FUSD and has an existing FUSD school on it (Phoenix Secondary School). The street address is 5090 E. Church Avenue.

Parcels 481-090-27 is owned by Bedrock Land Development, Inc., and is vacant, but previously had a house on it. The street address was 5160 E. Church Avenue.

Parcel 481-090-28 is owned by Bedrock Land Development, Inc., and is fallow cropland. A small portion of the parcel previously had a house on it. The street address was 5142 E. Church Avenue.

The site does not have an identification number assigned by the United States Environmental Protection Agency (USEPA).

Land use adjacent to the site consists of a residential subdivision to the north across E. Church Avenue, a school and a residential subdivision to the east across S. Peach Avenue, agricultural land and a mobile home park to the south, and agricultural land to the west.

4.0 BACKGROUND INFORMATION

This section presents background information for the site. This information was compiled during preparation of the PEA Workplan by reviewing historical topographic maps, historical aerial photographs, and a listing of regulatory agency records for the site and vicinity; and conducting a site reconnaissance. Available background information is summarized below.

Review of historical topographic maps and aerial photographs indicates that, as of 1937 (the date of the oldest aerial photograph obtained), the site was already used as cropland, divided into two portions by an irrigation canal, with two rural residences, one on each side of the canal. As of 2016, these two houses have been demolished. The eastern house had two additional structures (possible shop and barn) located approximately 100 feet south of the house. By 1972, two additional houses were located west of the canal. These are the two houses that are still on the site as of 2016. By 1984, another house was located east of the canal (this house has been demolished as of 2016).

Review of regulatory agency records indicates that two small USTs were located on the site. One was a 550-gallon gasoline UST located at 5090 E. Church Avenue (parcel 481-090-23ST, the existing school). AECOM reviewed file information at the Fresno County Environmental Health Division (FCEHD) regarding this UST, which was removed from the site in 1993. The UST was located approximately 150 feet north of the existing irrigation well. The FCEHD inspection report prepared at the time of the UST removal states that no visible holes were observed in the UST. A soil sample was collected from the soil beneath the UST at the time of removal in 1993 and submitted to an environmental laboratory. No petroleum hydrocarbon concentrations were detected in the soil sample.

The second on-site UST was a 500-gallon gasoline UST located in 1985 at 5142 E. Church Avenue (parcel 481-090-28, east of the canal, which formerly had a house and possible barn and shop on it). No additional information regarding this UST was found by AECOM. FCEHD does not have a file regarding this UST.

The AECOM Project Manager, Stuart St. Clair, PE, conducted a Site reconnaissance on February 2, 2016. Relevant observations noted by Mr. St. Clair are summarized below:

- The site currently contains, from west to east, an active school campus, two houses, an irrigation canal, and fallow cropland.
- The active school campus consists entirely of portable buildings. According to FUSD records, the school was constructed in 1993, and all of the portable buildings were constructed in 1993, except for two portable buildings that were constructed in 1985.
- An irrigation well is located in the southern portion of the school campus on the west side of the irrigation canal. According to a FUSD representative, the well is dry and will be sealed and destroyed soon. A metal pipeline crosses the canal a few hundred feet to the northeast presumably to carry water from the well to the east side of the canal.
- Both of the existing houses appear to have slab-on-grade foundations.

- Immediately south of the western house are a wooden shed and a wooden garage. A pole-mounted electrical transformer is located northwest of the house.
- Immediately south of the eastern house is a wooden shed and farther southeast is a metal shed. A pole-mounted electrical transformer is located northwest of the house.
- On the east side of the canal, near where the water pipeline crosses the canal, an old steel underground storage tank (UST) was observed on the ground surface. The UST is approximately 6-feet in diameter and 10-feet long (approximately 2,000 gallon capacity). According to a FUSD representative, the UST was not there a few months ago, so it appears to have been dumped there recently.
- Disturbed soil, apparently from demolition of a house, was observed on parcel 481-090-27. A partially collapsed hole, approximately 6 feet deep, observed in the ground is assumed to correspond to the basement of the former house. Just north of this hole, a soil stockpile approximately 20-feet wide (in the north-south direction), 70-feet long (in the east-west direction), and an average of 3-feet tall, was observed. Just east of the hole, three seepage pits for disposal of domestic wastewater were observed. The pits are approximately 4-feet in diameter, lined with masonry blocks, and connected with a horizontal 4-inch diameter black plastic pipe.
- No evidence was observed of the UST reported in 1985 on parcel 481-090-28.
- An irrigation well is located on parcel 481-090-28 approximately 250 feet south of E. Church Avenue and 200 feet east of the canal.
- A stockpile of soil was observed near the southwest corner of parcel 481-090-28. The stockpile is approximately 40-feet wide (in the north-south direction), 400-feet long (in the east-west direction), and 10-feet tall at the center, tapering to ground surface at the edges (average of approximately 7 feet tall). The soil stockpile is assumed to have been generated by grading activities on the site.
- No evidence of hazardous-materials impacts to the site from activities on adjacent properties was observed.

While the PEA field sampling was occurring in April 2016, AECOM staff observed that 26 truckloads of fresh soil had been dumped on the site approximately 250 feet south of E. Church Avenue and 150 feet east of the canal. The property owner was contacted, and between April 28 and May 2, 2016, all 26 truckloads of soil were removed from the site by the property owner's contractor. The property owner representative stated that he intended to install signs stating that trespassing and dumping on the property are prohibited. He also stated his intention to increase the frequency of visits to the property to prevent further dumping of soil and debris on the property.

5.0 ENVIRONMENTAL SETTING

This section summarizes available information on the topography, geology, hydrology, and climatology of the site and vicinity.

5.1 TOPOGRAPHY

The site is located in the San Joaquin Valley at an elevation of about 300 feet above mean sea level (amsl) [USGS, 1981]. The topography in the vicinity of the site is relatively flat and level, sloping gently downward to the south-southwest at about 10 feet per mile.

5.2 GEOLOGY

The site lies within the east-central part of the Great Valley Geomorphic Province of California. The valley is approximately 400 miles long and averages 50 miles wide. The valley has been filled with a thick sequence of marine and nonmarine sediments dating from the late Jurassic to the Holocene periods. The uppermost strata of the Great Valley represent, for the most part, the alluvial, flood, and delta plains of two major rivers (Sacramento and San Joaquin Rivers) and their tributaries.

The valley deposits are derived from the Coast Ranges to the west and the Sierra Nevada to the east. Granitic and metamorphic rocks outcrop along the eastern and southeastern flanks of the valley. Marine sedimentary rocks outcrop along most of the western, southwestern, and southern flanks; and volcanic rocks and deposits outcrop along the northeastern flanks of the valley. The valley geomorphology includes dissected uplands, low alluvial plains and fans, river flood plains and channels, and overflow lands and lake bottoms.

The site is in an area classified as having sediments laid down as part of the compound alluvial fan of intermittent streams north of the Kings River [Page & LeBlanc, 1969]. Alluvial, lacustrine, playa, and fluvial deposits underlie the site and are described as unconsolidated and semi-consolidated. There are no rock outcrops at the site. The depth to the basement complex of consolidated rocks is several hundred feet.

The Site is located approximately 15 miles southwest of the nearest known ultramafic rock outcropping [DMG, 2000]. Therefore naturally occurring asbestos is not considered a substantial concern for the Site.

USEPA's Map of Radon Zones assigns each county in the United States to one of three zones based on radon potential, with Zone 1 having the highest potential and Zone 3 the lowest (<http://www.epa.gov/radon/zonemap.html>). Fresno County is mapped in Zone 2. Counties in Zone 2 are predicted to have average indoor radon screening levels of between 2 and 4 picoCuries per liter. The California Department of Public Health has not posted a special report on radon for Fresno County on its website (<http://www.cdph.ca.gov/HealthInfo/>

environhealth/Pages/RadoninCalifornia.aspx). DTSC does not require further radon evaluation for proposed school sites unless they are located within USEPA Zone 1 or within an area identified as significant for radon potential based on other local or regional information. Based on the available information summarized above, radon is not considered a significant concern for the site.

5.3 HYDROLOGY

The San Joaquin River, located approximately 10 miles northwest of the site, and the Kings River, located approximately 10 miles east of the site, are the closest surface water bodies to the site. There are also several irrigation canals and small, man-made basins near the site.

The site is located within the Kings Subbasin of the Tulare Lake groundwater basin [DWR, 1980]. Groundwater occurs in an unconfined/semiconfined aquifer in unconsolidated alluvium [Page & LeBlanc, 1969]. Review of the California Department of Water Resources (DWR) groundwater elevation contour map for the unconfined aquifer from the year 2011 (the most recent available map) indicates that the groundwater elevation beneath the site was approximately 230 feet amsl, which corresponds to a depth to groundwater of approximately 70 feet bgs. The DWR contour map indicates that the groundwater flow direction at the site was toward the west-southwest in 2011.

5.4 CLIMATOLOGY

The climate at the site is characterized by cool, moist winters and hot, dry summers. Winter low temperatures at the site are occasionally below 30° Fahrenheit, and summer high temperatures often exceed 100° Fahrenheit. Prevailing winds are typically from the northwest. The average annual rainfall is about 11 inches (www.worldclimate.com). Evaporation amounts in the region significantly exceed precipitation amounts over the course of a typical year.

6.0 POTENTIAL PROBLEM

The site has been active cropland traversed by an irrigation canal since the 1930s or earlier. Two older houses are still located on the site, and three former houses have been demolished. Historical records indicate that a former house compound located east of the canal had a UST, and no removal documentation has been found. The eastern portion of the site is now used as a school campus constructed entirely of portable buildings. Two of these portable buildings were constructed in 1985, and the remainder in 1993. A dry irrigation well is located in the southern portion of the school campus, and a second irrigation well is located east of the canal. A soil stockpile is located near the southern boundary of the site, east of the canal. The soil stockpile is assumed to have been generated by grading activities on the site.

Potential areas of concern (AOCs) at the site are discussed in the subsections below.

6.1 PARCEL 481-090-016

Potential sources of hazardous materials contamination identified on parcel 481-090-016 comprise the following:

- Lead from lead-based paint potentially used on residential structures constructed prior to 1979.
- Termiticides potentially used near wooden structures installed prior to 1989.
- Polychlorinated biphenyls (PCBs) potentially used in electrical transformers installed prior to 1979.

6.2 PARCEL 481-090-018

Potential sources of hazardous materials contamination identified on parcel 481-090-018 comprise the following:

- Lead from lead-based paint potentially used on residential structures constructed prior to 1979.
- Termiticides potentially used near wooden structures installed prior to 1989.
- Polychlorinated biphenyls (PCBs) potentially used in electrical transformers installed prior to 1979.

6.3 PARCEL 481-090-023ST

Potential sources of hazardous materials contamination identified on parcel 481-090-023ST comprise the following:

- Application of pesticides to cropland.
- Lead from lead-based paint potentially used on residential structures constructed prior to 1979 or school structures constructed prior to 1993.
- Termiticides potentially used near wooden structures installed prior to 1989.
- Mixing of pesticides near the irrigation well.

6.4 PARCEL 481-090-027

Potential sources of hazardous materials contamination identified on parcel 481-090-027 comprise the following:

- Application of pesticides to cropland.
- Lead from lead-based paint potentially used on structures constructed prior to 1979.
- Termiticides potentially used near wooden structures installed prior to 1989.
- Household- or farming-related chemicals that may have been in wastewater disposed to the three seepage pits observed near the former house.

6.5 PARCEL 481-090-028

Potential sources of hazardous materials contamination identified on parcel 481-090-028 comprise the following:

- Application of pesticides to cropland.
- Application of pesticides to soil now stockpiled near the southwest corner of the parcel.
- Lead from lead-based paint potentially used on structures constructed prior to 1979.
- Termiticides potentially used near wooden structures installed prior to 1989.
- Storage of pesticides in the former barn.
- Petroleum hydrocarbons stored in the UST located near the former barn and shop.

6.6 SECTION OF CENTRAL CANAL

Potential sources of hazardous materials contamination identified on the on-site section of the Central Canal comprise the following:

- Accumulation of pesticides along the canal bank.

7.0 SAMPLING ACTIVITIES AND RESULTS

The subsections below describe the PEA field sampling activities and results. Section 7.1 provides a summary of the sampling activities. Section 7.2 describes clearance for underground utilities prior to the subsurface investigation. Section 7.3 provides details on the sampling rationale and methodology. Section 7.4 discusses the results of the PEA.

7.1 SUMMARY OF ACTIVITIES

The field sampling was performed in April 2016. Soil and active-soil-gas samples were collected from on-site areas of concern and analyzed for chemicals of potential concern (COPCs). Some of the soil samples were composited prior to analysis, and some of the soil samples were collected using the Incremental Sampling Methodology (ISM) [ITRC, 2012]. The sample locations are shown on Figures 3 through 11. Several equipment rinsewater blank water samples were also collected. The sampling was conducted in accordance with the PEA Workplan. Summaries of the analyses of discrete, composite, and ISM soil samples are presented on Tables 1, 2, and 3, respectively, including the environmental concern addressed by each sample. A summary of the analyses of active-soil-gas samples are presented on Table 4. A summary of the analyses of equipment-rinsewater-blank water samples is presented on Table 5.

Soil sample analytical results are summarized on Tables 6 through 9 for various classes of analytes. Active-soil-gas sample analytical results are summarized on Table 10. Equipment-rinsewater-blank water sample analytical results are summarized on Tables 11 and 12 for various classes of analytes.

7.2 BORING CLEARANCE

At least 48 hours prior to commencement of subsurface investigations, Underground Services Alert (USA) was notified of the intent to conduct such investigations at the site. All proposed locations of subsurface investigation were clearly marked with white paint or surveyors flagging as required by USA. USA contacted all utility owners of record within the site vicinity and notified them of the intention to conduct subsurface investigations in proximity to buried utilities. All utility owners of record, or their designated agents, were expected to clearly mark the position of their utilities on the ground surface throughout the area designated for investigation.

7.3 SAMPLING AND ANALYSIS

The following subsections describe soil sampling and analysis performed for the PEA. Subsection 7.3.1 discusses sampling locations and rationale. Detailed sampling protocols for soil sampling, Incremental Sampling Methodology (ISM) soil sampling, and active-soil-gas sampling are presented below in subsections 7.3.2, 7.3.3, and 7.3.4, respectively.

7.3.1 Sampling Locations and Rationale

Soil and active-soil-gas samples were collected to assess the areas of concern described in Section 6.0, as described in the subsections below. Cropland soil sampling was performed in accordance with DTSC, 2008, and soil sampling near current and former structures was performed in accordance with DTSC, 2006.

7.3.1.1 Parcel 481-090-016

Sample locations on parcel 481-090-016 comprised the following:

- Two surface soil sample locations (S-22F and S-24F) addressed the former cropland area on the parcel (Figure 3, Tables 1 and 2). At each of these sampling locations, a soil sample was collected from the ground surface to a depth of no more than 6 inches bgs
- Four soil sample locations (EH-1AB to EH-4AB) were adjacent to the four walls of the existing house (Figure 5, Tables 1 and 2). At all of these locations, surface soil samples were collected from 0 to 6 inches bgs, and subsurface soil samples were collected from 2.0 to 2.5 feet bgs. Based on an elevated chlordane concentration at location EH-2AB, adjacent to the eastern wall of the house, followup soil sampling was performed in May 2016 at four additional locations (EH-14, EH-15, EH-16, and EH-17) adjacent to that wall (Figure 12, Table 1).
- Two surface soil sample locations (EH-5 and EH-6) were adjacent to the existing metal shed (Figure 5, Table 1).
- One soil sample location (EH-7) was underneath the pole-mounted electrical transformer (Figure 5, Table 1). At this location, a surface soil sample was collected from 0 to 6 inches bgs, and a subsurface soil sample was collected from 2.0 to 2.5 feet bgs.
- Four soil sample locations (EH-8AC to EH-11AC) were adjacent to the four walls of the existing wooden shed (Figure 5, Tables 1 and 2). At all of these locations, surface soil samples were collected from 0 to 6 inches bgs, and subsurface soil samples were collected from 2.0 to 2.5 feet bgs.
- Two soil sample locations (EH-12 and EH-13) were adjacent to a concrete sidewalk that extends along the eastern side of the house and wooden shed.

7.3.1.2 Parcel 481-090-018

Sample locations on parcel 481-090-018 comprised the following:

- Two surface soil sample locations (S-21F and S-23F) addressed the former cropland area on the parcel (Figure 3, Tables 1 and 2).
- Four soil sample locations (WH-1Y to WH-4Y) were adjacent to the four walls of the existing house (Figure 5, Tables 1 and 2). At all of these locations, surface soil samples

were collected from 0 to 6 inches bgs, and subsurface soil samples were collected from 2.0 to 2.5 feet bgs.

- Two soil sample locations (WH-5Z and WH-6Z) were adjacent to the existing wooden shed (Figure 5, Tables 1 and 2). At both of these locations, surface soil samples were collected from 0 to 6 inches bgs, and subsurface soil samples were collected from 2.0 to 2.5 feet bgs.
- Four soil sample locations (WH-7AA to WH-10AA) were adjacent to the four walls of the existing garage (Figure 5, Tables 1 and 2). At all of these locations, surface soil samples were collected from 0 to 6 inches bgs, and subsurface soil samples were collected from 2.0 to 2.5 feet bgs.
- One soil sample location (WH-11) was underneath the pole-mounted electrical transformer (Figure 5, Table 1). At this location, a surface soil sample was collected from 0 to 6 inches bgs, and a subsurface soil sample was collected from 2.0 to 2.5 feet bgs.

7.3.1.3 Parcel 481-090-023ST

Sample locations on parcel 481-090-023ST comprised the following:

- Twenty-four surface soil sample locations (S-1A to S-20E, and S-25G to S-28G) addressed the former cropland area on the parcel (Figure 3, Tables 1 and 2).
- Six soil sample locations (FH-1W to FH-6W) addressed the former house (Figure 5, Tables 1 and 2). At all of these locations, surface soil samples were collected from 0 to 6 inches bgs, and subsurface soil samples were collected from 2.0 to 2.5 feet bgs.
- Eight surface soil sample locations (ES-1 to ES-8) addressed the two older portable buildings on the existing school campus (Figure 6, Table 1). Subsurface soil samples were not collected, because termiticides are not considered a significant concern for structures installed after 1989 [DTSC, 2006]. These portable buildings were constructed in 1985, but were installed at this location in 1993.
- Four surface soil sample locations (IW-1 to IW-4) addressed potential chemical mixing near the irrigation well in the southern portion of the existing school campus (Figure 7, Table 1).

7.3.1.4 Parcel 481-090-027

Sample locations on parcel 481-090-027 comprised the following:

- Two surface soil sample locations (S-35I and S-36I) addressed the former cropland area on the parcel (Figure 3, Tables 1 and 2).

- Three Incremental Sampling Methodology (ISM) replicate soil samples (Replicate D to Replicate F), each consisting of a minimum of 30 incremental soil samples, were collected from a rectangular Decision Unit (DU) which encompasses the area where the former house was located (Figure 8). At each of the incremental locations, a surface soil sample was collected from approximately 0 to 3 inches bgs. The incremental sampling locations were selected randomly using the Visual Sample Plan (VSP) software (version 7.5) developed for the U.S. Department of Energy. The sample location placement method used was the systematic grid sampling method with fixed spacing and random start. As shown on Table 3, the ISM replicate samples were analyzed for arsenic, lead, and organochlorine pesticides (OCPs).
- Four surface soil sample locations (B-1 to B-4) addressed the soil in the basement of the former house (Figure 9, Table 1).
- Three sample locations (SP-1 to SP-3) addressed the soil in the seepage pits adjacent to the former house (Figure 9, Table 1). Attempts were made to advance the borings inside the seepage pits, but retrieval of soil material was minimal, so the soil borings were moved to immediately outside the seepage pits. At each location, soil samples were collected at depths of 7 and 10 feet bgs. The ground surface elevation outside the seepage pits was approximately 4 feet higher than inside the seepage pits, so the sampling depths correspond to depths of approximately 3 and 6 feet below the top of the seepage pits.
- Soil samples were collected from four sample locations (NS-1 to NS-4) on the soil stockpile located north of the former house (Figure 9). At each location, two depth-discrete samples were collected (one in the upper foot of the stockpile, and one in the lower two feet of the stockpile). The two depth-discrete samples at each location were composited together for analysis of arsenic, lead, OCPs, and PCBs (Table 2).

7.3.1.5 Parcel 481-090-028

Sample locations on parcel 481-090-028 comprised the following:

- Forty-two surface soil sample locations (S-29H to S-34I, and S-37J to S-72R) addressed the former cropland area on the parcel (Figure 3, Tables 1 and 2).
- Three ISM replicate soil samples (Replicate A to Replicate C), each consisting of a minimum of 30 incremental soil samples, were collected from an L-shaped DU which encompasses the area where the former house, barn, and shop were located (Figure 8). At each of the incremental locations, a surface soil sample was collected from approximately 0 to 3 inches bgs. The incremental sampling locations were selected randomly using the VSP software. The sample location placement method used was the systematic grid sampling method with fixed spacing and random start. The ISM replicate samples were analyzed for arsenic, lead, and OCPs (Table 3).

- Soil samples were collected from ten sample locations (SS-1 to SS-10) on the soil stockpile located near the southwest corner of the parcel (Figure 10). At each location where the stockpile is less than 5 feet thick, two depth-discrete samples were collected (one in the upper foot of the stockpile, and one in the lower two feet of the stockpile). At each location where the stockpile is more than 5 feet thick, three depth-discrete samples were collected (one in the upper foot of the stockpile, one near the middle of the stockpile, and one in the lower two feet of the stockpile). The two or three depth-discrete samples at each location were composited together for analysis of arsenic and OCPs (Table 2).
- In the southern portion of the former house area east of the canal where a UST was possibly located near a former barn and shop, a geophysical survey was conducted using metal detection and ground penetrating radar (GPR) equipment to assess the actual UST location (Figure 11). The geophysical survey report is provided in Appendix B. Based on the geophysical survey findings, two active soil gas sampling locations were selected. At each of the two sampling locations, active soil gas samples were collected at approximately 5 and 10 feet bgs (Table 4).
- Four soil sample locations (EW-1 to EW-4) addressed potential chemical mixing near the irrigation well east of the canal (Figure 11, Table 1). At all of these locations, surface soil samples were collected from 0 to 6 inches bgs, and subsurface soil samples were collected from 2.0 to 2.5 feet bgs.
- Three surface soil samples (ID-1 to ID-3) addressed soil in the bottom of an irrigation ditch (Figure 4, Table 2).

7.3.1.6 Section of Central Canal

Sample locations on the on-site section of the Central Canal comprised the following:

- Eleven surface soil sampling locations (S-73S to S-83U) were selected along the banks of the canal (Figure 4, Tables 1 and 2).

7.3.2 Soil Sample Collection Procedures

Soil sampling was conducted using a direct-push technology (DPT) sampling rig mounted on an all-terrain vehicle (e.g., GeoprobeTM). Soil samples were collected using a 2 inch diameter core barrel sampler fitted with a new acetate liner for each sampling attempt. The DPT sampler was driven by a hammer. As the sampler was advanced, soil was driven into the inner acetate liner. After being driven 2 to 4 feet, the rods were removed from the borehole. The liner containing the soil was then removed from the sample barrel and the lithology noted. Selected 6-inch-long sections were then cut, capped on both ends with Teflon film and plastic caps, labeled for chemical analysis, placed in a ziplock bag, and stored in a chilled cooler. As necessary, the rods were re-inserted into the borehole and driven additional lengths of 2 to 4 feet to reach the total desired sampling depth.

An alternative to using a DPT rig was the use of a combination of a hand auger and a drive sampler. The hand auger was used to advance a borehole to the top of the planned sampling depth. The soil sample was collected by driving a stainless steel sampler containing a stainless steel tube into the hand auger hole at designated depths. The sample was stored in the metal tube, capped on both ends with Teflon film and plastic caps, labeled, placed in a zip-lock bag, and stored in a chilled cooler.

Some of the surface soil samples were collected by scraping surface soil directly into a glass jar. The jar was closed (taking care to prevent soil from remaining in the lid threads prior to being closed to prevent potential contaminant migration to or from the sample), labeled for chemical analysis, placed in a ziplock bag, and stored in a chilled cooler. If vegetation was present, it was cleared with a disposable tool, such as a plastic scoop, or with a decontaminated re-usable tool prior to collecting the surface soil into the jar.

Soil samples were identified with the sample location name followed by the bottom depth of the depth interval sampled (e.g., B-1-0.5'). For discrete samples that were to be composited with other samples, the sample was assigned a letter designation in common with the other samples to be included in the composite sample (e.g., S-1A-0.5').

After sampling, each borehole was filled with the soil cuttings that had been removed by the hand auger.

7.3.2.1 Soil Description

Soil encountered during advancement of the test holes was described on boring logs in accordance with the Unified Soil Classification System (USCS). In addition, any visible evidence of soil contamination (e.g., odor or staining) was noted. The boring logs are provided in Appendix C.

7.3.2.2 Decontamination

All non-disposable equipment that came into contact with potentially contaminated soil was decontaminated to assure the quality of samples collected. Such equipment included the hand auger, drive sampler, and equipment used to loosen surface soil for sampling. Disposable equipment intended for one-time use was not decontaminated, but was packaged for appropriate disposal. Decontamination included a detergent/water wash followed by double rinsing in clean water. Decontamination occurred before and after each use of a piece of equipment. Since there was no contact with apparently grossly contaminated material, water generated during equipment decontamination was spread on the ground at the site as approved by DTSC.

7.3.2.3 Collection of Background Soil Samples

No background soil samples were collected for the PEA.

7.3.3 ISM Soil Sampling

At each DU designated for ISM sampling, a minimum of 30 surface soil samples were collected from the uppermost 6 inches of soil which, when combined, created one composite soil sample representative of that DU [ITRC, 2012]. This process was repeated two more times within each DU so that three replicate samples representing each DU were created. The incremental sampling locations were selected randomly using the Visual Sample Plan (VSP) software (version 7.5) developed for the U.S. Department of Energy. The precise geographic boundaries of each DU were imported to VSP prior to selecting the incremental sampling locations. The VSP placement method used to select the incremental sampling locations was the systematic grid sampling (with fixed spacing and random start). The geographic coordinates of the planned incremental samples were exported from VSP and used in the field to navigate to the sample locations. The incremental sampling locations for the two DUs are shown on Figure 8.

The ISM soil sampling was performed as follows:

- A Geographic Positioning System (GPS) unit was used to navigate to each incremental sample location using the geographic coordinates exported from VSP.
- The incremental soil samples were collected with a 12-inch long, stainless steel coring tool having an inside diameter of approximately $\frac{3}{4}$ -inch.
- If an obstruction was encountered at any incremental sampling location (e.g., roots, vines, rocks, etc.), the incremental sampling location was moved 6 inches to the west, repeating as necessary until a sample of sufficient volume was obtained.
- The total sample weight necessary for ISM processing is 1 kilogram (kg) of soil. To ensure that approximately 1 kg of soil was collected for each sample, the first increment collected for each replicate sample was weighed on a scale in the field, and modification of the sampling depth was made, as necessary. A 3-inch sampling depth was found to be adequate for each replicate sample.
- The 30+ incremental samples that make up a single replicate sample were placed into a clean 2-gallon re-sealable plastic bag labeled with the name of the DU and the replicate sample. After all 30+ incremental samples had been collected, the bag was sealed and placed in a chilled cooler for transport to the analytical laboratory.
- The sampling tool was decontaminated before collecting the first increment of each replicate sample at each DU, but was not decontaminated between collection of each of the incremental samples that make up any one of the replicate samples.
- After all three replicate samples for a DU had been collected, bagged, labeled, and placed in the cooler, field staff moved to the next DU and repeat the ISM process for that DU.

7.3.4 Active Soil Gas Sampling

Temporary soil gas probes were installed using a DPT sampling rig, as described in Section 3.2 of CalEPA, 2015. At each sampling location, a continuous-core soil boring was advanced with the DPT rig to a depth of 15 feet bgs to assess lithology and select soil-gas probe depths targeting higher permeability deposits. The boring logs are provided in Appendix C. Then, at each location, two adjacent probes were installed at depths of approximately 5 and 10 feet bgs.

The temporary soil gas probes were installed by making an approximately 2-inch diameter hole to the desired depth using a DPT rig. After the drill rods were removed from the hole, the total depth was verified, and then an approximately 6-inch thick layer of sand was installed. Then, a porous probe tip was attached to flexible synthetic tubing, and the probe tip and tubing were inserted to the top of the sand layer. Then, approximately 6 more inches of sand was installed, followed by an approximately 1-foot thick layer of dry granular bentonite, followed by hydrated bentonite to approximately 1 foot bgs. Prior to soil gas sampling, the probes were allowed to equilibrate for at least 48 hours after completion.

Active soil gas samples were collected from the probes. Each probe will be sampled and analyzed as follows:

- A shut-in test was performed to check for leaks in the above-ground sampling train. The shut-in test involved connecting a hand-vacuum pump with a built-in pressure gauge to the aboveground sampling train using flexible tubing, applying a vacuum pressure of greater than 10-inches of mercury, and checking after one minute had elapsed to verify that the vacuum pressure had not decreased by more than 5-percent. If the sample train failed the shut-in test, the fittings and connections were tightened or replaced, and the shut-in test was repeated.
- A leak test was performed with a liquid leak-test compound, such as isobutane, to check for leaks in the entire sampling system. The leak-test compound was included in the analytes to be reported by the environmental laboratory.
- The tubing exiting the ground surface at the soil gas probe was connected to an electric vacuum pump, or other type of pump, which removed approximately three sample-train volumes of soil gas from the subsurface prior to sampling. The air flow rate during soil gas purging and sampling was between 100 and 200 milliliters per minute, and the vacuum was less than 100 inches of water.
- The tubing was attached to the regulator on a laboratory-supplied, one-liter Summa canister. The regulator was fitted previously with a restrictor to prevent the canister from filling at a flow rate of greater than 200 milliliters per minute. The canister was evacuated to more than 25 inches of mercury gauge pressure by the laboratory prior to sampling. The vacuum pressure was recorded prior to opening the regulator valve. The valve was left open until the vacuum gauge pressure was between 2 and 5 inches of mercury. Then, the valve was closed and the tubing removed from the regulator.
- A field duplicate soil gas sample was collected at one location.

- The Summa canisters were shipped to a qualified environmental laboratory for analysis, as detailed in Section 7.3.7.

After sampling, the soil gas probes were secured, to the extent possible, for potential re-sampling at a later date. After the analytical results had been reviewed with Client and DTSC, the probes were decommissioned on March 26, 2016, in accordance with CalEPA, 2015 by squeezing sealant into the tubes, cutting the tubes as far below grade as possible, and filling the hole with compacted native soil.

7.3.5 Field Equipment Rinseate Blank Collection Procedures

Field equipment rinseate blank water samples were collected on each day that reusable sampling equipment was used. The field equipment blank samples were collected by pouring distilled water over decontaminated sampling equipment, such as the soil core sampler. The water was collected in laboratory-provided containers that contained appropriate preservative chemicals. The containers were handled in the same fashion as other samples (i.e., labeled, placed in a chilled insulated container, and identified on the chain-of-custody [COC] record) and delivered to a laboratory for analysis with the other samples.

7.3.6 Field Documentation and Sample Handling Procedures

During field activities, field reports were used to document where, when, how, and from whom any vital project information was obtained. Field report entries were complete and accurate enough to permit reconstruction of field activities. Each page was dated and the time of entry noted. All entries were legible, written in black ink, and signed by the individual making the entries. If an error was made, corrections were made by crossing a line through the error and entering the correct information. Corrections were dated and initialed. No entries were obliterated or rendered unreadable. At a minimum, the following items were recorded in the field reports:

- Site name and address.
- Recorder's name.
- Team members and their responsibilities.
- Time of site arrival/entry on site and time of site departure.
- Other personnel on-site.
- A summary of any on-site meetings.
- Health and safety monitoring data.
- Deviations from sampling plans and site safety plans.
- Changes in personnel and responsibilities as well as reasons for the changes.
- Levels of safety protection.
- Calibration readings for any equipment used and equipment model and serial number.

COC records were used to document sample collection and shipment to the laboratory for analysis. All sample shipments for analyses were accompanied by a COC record. The COC record identified the contents of each shipment and maintained the custodial integrity of the samples. Generally, a sample is considered to be in someone's custody if it is either in someone's physical possession, in their view, locked up, or kept in a secured area that is restricted to authorized personnel. Until receipt by the laboratory, the custody of the samples was the responsibility of the sample collector.

Soil sample containers consisted of laboratory-provided glass jars, stainless steel sleeves (typically 1.5-inch diameter by 6-inches long) sealed with Teflon film and plastic endcaps, or laboratory-provided water sample containers for equipment blank samples. To identify and manage samples obtained in the field, a sample label was affixed to each sample container. The sample labels included the following information:

- Site name.
- Boring number.
- Sample name.
- Sampler's initials.
- Date and time of collection.

Following collection and labeling, samples were immediately placed in a chilled, insulated container for temporary storage. The following protocol was followed for sample packaging:

- Sample containers were placed in clear, plastic, leak-resistant bags prior to placement in the ice chest.
- Ice was placed in leak-resistant plastic bags and included in the insulated container to keep samples at a chilled temperature during transport to the analytical laboratory. The drain plug of the insulated container was secured with tape to prevent melting ice from leaking out of the insulated container.
- The COC record was placed in a water-resistant plastic bag and taped on the inside of the lid of the insulated container.

A field report was used to record the following information during the collection of each sample:

- Sample identification number.
- Sample location and description.
- site sketch showing sample location and measured distances.
- Sampler's name(s).
- Date and time of sample collection.
- Designation of sample as composite or grab.
- Type of sample (i.e., matrix).

- Type of preservation.
- Type of sampling equipment used.
- Field observations and details important to analysis or integrity of samples (e.g., heavy rains, odors, colors, etc.).
- Instrument readings (e.g., photo-ionization detector, etc.).
- COC record numbers.
- Transport arrangements (courier delivery, lab pickup, etc.).
- Recipient laboratory(ies).

7.3.7 Analytical Procedures

Analytical services for soil and water samples were provided by one or more laboratories that are accredited under the California Department of Health Services, Environmental Laboratory Accreditation Program (ELAP). Alpha Scientific Corporation of Cerritos, California analyzed the soil and water samples, except that APPL Inc. of Clovis, California analyzed the ISM soil samples. There is no ELAP accreditation for soil gas samples. Eurofins Air Toxics Ltd. of Folsom, California analyzed the soil gas samples. The laboratories were instructed to report estimated values, i.e., between the method detection limit and reporting limit, with a “J” qualifier. Analytical methods are listed on Tables 1 through 5. The laboratories prepared and analyzed duplicate samples at a minimum rate of 10-percent of the primary analyses. Appendix D contains the laboratory reports.

Prior to laboratory analysis, the laboratory prepared the ISM bulk soil samples as follows:

- The bulk soil sample was air dried to relatively constant weight.
- Rocks, sticks, vegetation and other visual debris were removed from the sample.
- The sample was sieved through a mesh sieve having 2 millimeter openings. Mortar and pestle were used as needed to break up any clumps and allow the sample to pass through the sieve.
- The sample was laid out in a Japanese slabcake and incrementally sampled for all analyses. At least 30 increments were collected for each analysis from systematic random locations around the entire sample.

7.4 DISCUSSION OF RESULTS

Results of the PEA are discussed in the subsections below.

7.4.1 Geophysical Survey Results

The geophysical survey report is provided in Appendix B. In summary, the geophysical subconsultant concluded that no USTs were positively detected within the survey area. Two anomalous areas were identified as potential locations of a former UST. Based on these results, active soil gas samples were collected at these two locations, as discussed below in subsection 7.4.3.

7.4.2 Analytical Results for Soil Samples

The soil sample laboratory analytical results for various classes of chemicals are presented on Tables 6 through 9. A summary of the chemicals detected in soil, including the maximum concentrations detected on-site, is presented on Table 13. The analytical results on Table 13 are in units of milligrams per kilogram (mg/kg). For inclusion on Table 13, the OCP and volatile organic compound (VOC) results on Tables 7 and 8, respectively, were converted from micrograms per kilogram ($\mu\text{g}/\text{kg}$) to mg/kg by dividing by a factor of 1,000.

Various naturally occurring metals were detected in one or more soil samples (Table 6), comprising arsenic, barium, chromium, cobalt, copper, lead, nickel, vanadium, zinc. The maximum detected concentrations of these metals are shown on Table 13. Except for arsenic and lead, all of these maximum concentrations are within the typical range of background concentrations in the site vicinity. One highly regarded California study of background metal concentrations included four soil samples collected in Fresno County [Kearney Foundation, 1996]. The ranges of background metal concentrations detected in these four Fresno County soil samples are presented in the fifth column of Table 13 for comparison to on-site soil conditions. These ranges of background concentrations are supported by numerous other site investigations performed throughout Fresno County. Except for arsenic and lead, the maximum metals concentrations detected in on-site soil samples were in all cases within the ranges of reported background concentrations, and in many cases were less than the minimum reported background concentrations (Table 13). For arsenic and lead, the 95-percent upper confidence limit of the mean (95%-UCL) concentrations were calculated using ProUCL version 5.0. The ProUCL output sheets are provided in Appendix E, and the 95%-UCL concentrations are provided on Table 13. For these two analytes, the 95%-UCL concentrations are within the ranges of reported background concentrations.

Eight OCPs were detected in one or more soil samples (Table 7), comprising alpha-chlordane, gamma-chlordane, total chlordane, 4,4'-DDE, 4,4'-DDT, dieldrin, heptachlor, and heptachlor epoxide. The maximum detected concentrations of these OCPs are shown on Table 13. Based on the elevated chlordane concentration in composite soil sample AB-0.5', consisting of samples from locations EH-1AB, EH-2AB, EH-3AB, and EH-4AB near the existing house on parcel 481-090-016 (west of the canal), followup OCP analyses were conducted on the four discrete samples and also on discrete surface soil sample EH-12-0.5' collected approximately 8 feet east of the house adjacent to the concrete sidewalk that extends along the eastern side of the house (Table 7). In addition, followup soil sampling was performed at four additional locations (EH-14, EH-15, EH-16, and EH-17) adjacent to the east side of the house (Figure 12). Two of the original discrete samples (EH-2AB-0.5' and EH-3AB-0.5') contained chlordane concentrations

exceeding the DTSC-recommended residential screening level of 430 $\mu\text{g}/\text{kg}$, but none of the followup soil samples contained chlordane concentrations exceeding the screening level (Table 7). The maximum detected chlordane concentration was 1,670 $\mu\text{g}/\text{kg}$, which is somewhat higher than the screening level, but still corresponds to a cancer risk within the range that has been considered acceptable by DTSC for other California school sites. Chlordane was not detected in the composite subsurface soil sample AB-2.5', which consisted of subsurface soil samples collected at 2.5 feet bgs at the four locations around the house. Based on the analyzed soil samples, it appears that only a limited volume of soil adjacent to the house contains chlordane at concentrations exceeding the residential screening level.

Ethylbenzene and total xylenes were detected in one soil sample (SP-1-10.0') collected at a depth of 10 feet bgs adjacent to one of the seepage pits on parcel 481-090-027, east of the canal (Table 8).

Arsenic, lead, and six OCPs were detected in the ISM replicate samples collected in the two DUs east of the canal (Table 9). The detected arsenic and lead concentrations are within the ranges of typical background concentrations. The maximum chlordane concentration in the first DU was 1.1 mg/kg , which is somewhat higher than the DTSC residential soil screening level of 0.43 mg/kg , but still corresponds to a cancer risk within the range that has been considered acceptable by DTSC for other California school sites.

7.4.3 Analytical Results for Active Soil Gas Samples

Eight VOC analytes were detected in one or more active-soil-gas samples (Table 10). Only one of these analytes, carbon disulfide, was detected at sample location SG-2. A summary of the chemicals detected in soil gas, including the maximum concentrations detected on-site, is presented on Table 14.

7.4.4 Analytical Results for Equipment-Rinseate-Blank Water Samples

The laboratory analytical results for metals and organic compounds in the equipment rinseate blank water samples are presented on Tables 11 and 12, respectively. The only analytes detected in the equipment rinseate blank water samples were barium, copper, and zinc at maximum concentrations of 0.020, 0.025, and 0.026 milligrams per liter (mg/L), respectively. These relatively low concentrations, equivalent to 0.020, 0.025, and 0.026 parts per million, respectively, are unlikely to have significantly affected the barium, copper, and zinc concentrations detected in soil samples, of which the minimum concentrations were 40.6, 8.0, and 14.6 mg/kg , respectively, equivalent to 40.6, 8.0, and 14.6 parts per million, respectively.

8.0 HUMAN HEALTH SCREENING EVALUATION

The subsections below present the methodology and results of the human health screening evaluation.

8.1 INTRODUCTION

The PEA screening evaluation for human health effects consisted of three steps:

- 1) Identifying potentially complete exposure pathways based on the conceptual site model (CSM);
- 2) Identifying COPCs; and
- 3) Estimating COPC exposures or doses and comparing the dose to health-based levels developed by USEPA and Cal/EPA; in compliance with the PEA Guidance Manual [DTSC, 2015], a residential land-use scenario was used to estimate human health risks at the site.

Exposure to chemicals can only occur if there is a complete pathway by which chemicals in on-site soil, water, or air can be contacted by humans. Therefore, the evaluation of exposure pathways is the first step in the human health screening evaluation. Potential dose and risk are then calculated based on an evaluation of potential exposure concentrations of the COPCs, the chronic daily intake or dose for the hypothetical residential adult and child receptors, and the estimated health risks based on the toxicity values of each COPC as discussed below in Section 8.4. The findings of the human health screening evaluation are summarized in the risk characterization summary. The uncertainty section presents factors in the risk assessment that may have resulted in an overestimation or underestimation of risk in this screening evaluation and is provided for assistance in the risk management decision-making process.

8.2 EXPOSURE PATHWAYS AND MEDIA OF CONCERN

The subsections below present the exposure pathways and media of concern.

8.2.1 Conceptual Site Model

The CSM, included as Figure 13, provides a description of the links between potential contaminant sources and release mechanisms at the site and exposure point media (soil, groundwater, air, etc.), potential exposure routes (ingestion, inhalation, dermal contact, etc.), and potential receptors. The receptors identified in the CSM include future school students and staff. However, as discussed above and in accordance with DTSC, 2015, a residential land-use scenario is used for evaluating potential health effects to receptors. The residential land-use scenario is used in the screening evaluation because it is intended to provide a more stringent or health-conservative preliminary evaluation of potential health risks for any human receptors.

8.2.2 Soil Exposure Pathways

Chemicals detected in soil at the site comprise metals, VOCs, and OCPs (Table 13). The potential exists for humans to contact these chemicals through direct dermal contact with the soil, incidental soil ingestion, and, as discussed below, inhalation of airborne particulate matter. For the purposes of the PEA, these pathways were considered complete and evaluated in the human health screening evaluation.

8.2.3 Water Exposure Pathways

Groundwater samples were not collected for this PEA. The water supply for the school will be obtained from the City of Fresno municipal system. Therefore, a water exposure pathway was not evaluated for the human health screening evaluation.

8.2.4 Air Exposure Pathways

Exposure to chemicals present in soil may occur through inhalation of airborne particulates to which chemicals have become absorbed, or through inhalation of VOCs in indoor or outdoor air. Residential exposure to fugitive dust was evaluated for all COPCs detected in on-site soil. For VOCs detected in soil gas samples (Table 14), residential exposure to inhalation of VOCs in indoor air was evaluated, because VOC concentrations in indoor air are assumed to be greater than in outdoor air.

8.2.5 Summary of Selected Exposure Pathways

For the purpose of this PEA screening evaluation, it was assumed that the hypothetical receptor would be exposed to chemicals detected in on-site soil through direct dermal contact, incidental ingestion, inhalation of airborne particulates, and inhalation of VOCs in indoor air.

8.3 EXPOSURE POINT CONCENTRATIONS AND CHEMICALS

Table 13 presents the list of chemicals detected in on-site soil, and identifies which of those chemicals were included as COPCs for the human health screening evaluation. Metals were not included as COPCs because the maximum detected metals concentrations, or 95%-UCL concentrations for arsenic and lead, were well within, or below, the range of regional background concentrations. Table 14 presents the list of chemicals detected in on-site soil gas, and identifies which of those chemicals were included as COPCs for the human health screening evaluation. In accordance with PEA guidance for the screening evaluation, the maximum detected chemical concentrations in soil were evaluated as potential exposure point concentrations (EPCs). For VOCs in soil gas, the maximum detected concentrations were multiplied by the DTSC-recommended attenuation factor of 0.001 for a future residential building to obtain the indoor-air EPC. The COPCs and EPCs for soil and soil gas are presented on Table 15.

8.4 SCREENING LEVELS

The EPCs were compared to screening levels for residential soil and air in accordance with DTSC's Human Health Risk Assessment (HHRA) Note 3, dated January 2016. Different

screening levels were used to evaluate carcinogenic (cancer causing) impacts and non-carcinogenic impacts (e.g., liver or kidney damage). Carcinogenic screening levels are typically based upon a predicted excess long-term cancer risk of $1.0E-06$ (one in a million). Non-carcinogenic screening levels are based upon maintaining the daily COPC intake below the level at which deleterious health effects are considered possible. Most of the screening levels consisted of Regional Screening Levels (RSLs) developed by USEPA, except for the carcinogenic screening level for chlordane, which consisted of a more conservative DTSC-recommended value.

The screening evaluation was performed by calculating the ratios of the EPC to the carcinogenic and non-carcinogenic screening levels for each COPC. To evaluate potential cumulative impacts, the ratios for each COPC were added together to provide a total value (Table 15).

8.5 EVALUATION RESULTS

Human health screening evaluation results, divided into carcinogenic and non-carcinogenic health effects, are discussed in the following two subsections.

8.5.1 Cancer Risks

A total of 16 COPCs were included in the human health screening evaluation for soil exposure. As shown on Table 15, 9 of these COPCs are considered carcinogens by Cal/EPA (OEHHA) or USEPA (weight-of-evidence classification system: known [Group A], probable [Group B1 or B2], or possible [Group C] human carcinogen). Of these COPCs, only total chlordane had an EPC that exceeded, or even approached, the selected carcinogenic screening levels. As shown on Table 15, the estimated excess cancer risk for each COPC was calculated by dividing the EPC by the screening level and multiplying by $1E-06$ (the cancer risk level estimated by the screening level). The total cumulative calculated excess cancer risk for all of the COPCs is $5.1E-06$.

8.5.2 Non-Carcinogenic Health Effects

As shown on Table 15, none of the COPCs were detected in soil samples at concentrations exceeding, or even approaching, the selected noncancer screening levels, indicating that no significant concern is present. As shown on Table 15, the hazard index was calculated by summing the ratios of EPCs to screening levels for all of the COPCs. The calculated hazard index is 0.68, which is well below the cumulative screening level of 1.0, indicating no significant cumulative concern.

8.6 DISCUSSION

Based on the results presented above, the only potentially significant health risk associated with the COPCs detected at the site appears to be due to chlordane detected in shallow soil at the eastern existing house, which is located immediately west of the canal.

8.7 UNCERTAINTY ANALYSIS

The predicted risks and hazards are based on the maximum COPC concentrations detected in the soil and soil gas samples that were collected during this PEA. Sample locations were selected with the objective of finding elevated concentrations if present, but the possibility exists that other locations are present at the site that have higher COPC concentrations than the locations that were sampled, or that have other detectable chemicals that were not detected during this PEA.

Carcinogenic risks for all pathways were based on a residential exposure of 350 days per year for a period of 30 years. Different exposure parameters may be more realistic depending upon the foreseeable future uses for the site. Incorporating different exposure parameters into the assessment could change the predicted carcinogenic risk considerably.

9.0 PUBLIC PARTICIPATION

Public notification of PEA activities was performed in accordance with California Education Code requirements and the guidance of DTSC.

9.1 PEA WORK NOTICE

Prior to conducting the field sampling for the PEA, a work notice, notifying residents/businesses within view of the site of the upcoming sampling activities, was mailed on March 28, 2016, pursuant to the requirements of California Education Code Section 17210.1(b). The PEA work notice was also posted on the fence at the site facing E. Church Avenue. A copy of the PEA work notice is included in Appendix F.

9.2 PUBLIC COMMENT PERIOD AND PUBLIC HEARING

FUSD will provide a 30-day public comment period for the Draft PEA Report and hold a public hearing, pursuant to the requirements of California Education Code Section 17213.1(a). Notice of the public comment period will be published in a general circulation newspaper. During the public comment period, the Draft PEA Report will be available for public review and comment at the following addresses:

Fresno Unified School District
2309 Tulare Street
2nd Floor, Board Office
Fresno, California 93721-2287

Department of Toxic Substances Control
8800 Cal Center Drive
Sacramento, California 95826

Mosqueda Branch Public Library
4670 E. Butler Avenue
Fresno, California 93702

The Draft PEA Report will also be available on the Internet at the DTSC “EnviroStor” database – see “Activities” tab at the following Internet address:

http://www.envirostor.dtsc.ca.gov/public/profile_report.asp?global_id=60002297

Anyone interested in reviewing the Draft PEA Report, or providing comments, may contact Mr. Jose Luevano, DTSC Project Manager, by telephone at (916) 255-3577 or by electronic mail at jose.luevano@dtsc.ca.gov, or Mr. William (Alex) Belanger, FUSD Assistant Superintendent, Facilities Management & Planning, by telephone at (559) 457-6126 or by electronic mail at william.belanger@fresnounified.org.

10.0 QA/QC PROGRAM

The QA/QC Program was implemented in accordance with the procedures set forth in Section 7.3 of the PEA Workplan.

Quality control samples included laboratory duplicate samples and field equipment rinseate blanks. The data for these quality control samples were reviewed, along with other laboratory quality control results.

As discussed in subsection 7.4.4, analytes detected at low concentrations in the field equipment rinseate blank samples are considered unlikely to have significantly affected corresponding analyte concentrations in the primary soil samples. Analytical results for duplicate samples were generally within the 50-percent relative-percent-difference (RPD) criterion set forth in the PEA Workplan, with a few exceptions that are likely due to small-scale variations in field concentrations rather than lack of precision in the sampling and analytical process.

Analytes were not detected in any of the laboratory method blank samples. Percent recoveries for surrogate compounds and for laboratory control spike (LCS) and matrix spike/matrix spike duplicate (MS/MSD) samples were generally within the laboratory's acceptance limits.

Overall, the data are considered useable for decision-making purposes.

11.0 HEALTH AND SAFETY

During the PEA field activities, the site-specific Safe Work Plan (SWP) included in the PEA Workplan was followed to provide for on-site worker health and safety. AECOM field personnel reviewed the SWP prior to commencing field work. During field activities, appropriate “Level D” personal protective equipment was worn by all personnel. No conditions were encountered that required an upgrade above “Level D” personal protective equipment. No health and safety incidents or emergency actions occurred during the field program.

12.0 VARIANCES TO THE WORKPLAN

The following variances to the PEA Workplan were required, none of which caused any significant negative impact to the results, conclusions, or recommendations of the PEA:

- Three surface soil sample locations (ID-1 to ID-3) were added on parcel 481-090-028 to assess soil in the bottom of an irrigation ditch that extends eastward from the canal (Figure 4, Table 2).
- Surface soil sample location S-74S, on the western bank of the canal, was moved approximately 100 feet southward due to excessive vegetation blocking access to the originally planned location.
- At the two existing houses west of the canal, a few of the soil sample locations adjacent to existing buildings were adjusted to more accessible locations (Figure 5, Tables 1 and 2).
- At the eastern existing house located immediately west of the canal, four soil sample locations (EH-8AC to EH-11AC) were added adjacent to the four walls of an existing wooden shed (Figure 5, Tables 1 and 2). At all of these locations, surface soil samples were collected from 0 to 6 inches bgs, and subsurface soil samples were collected from 2.0 to 2.5 feet bgs. In addition, two surface soil sample locations (EH-12 and EH-13) were added adjacent to a concrete sidewalk that extends along the eastern side of the house and wooden shed (Figure 5, Table 1). Followup soil sampling was performed at four locations (EH-14, EH-15, EH-16, and EH-17) adjacent to the east wall of the house (Figure 12, Table 1)
- At the existing school, two surface soil sample locations (ES-2 and ES-8) were adjusted to locations where precipitation runoff would drain, due to paved sidewalks adjacent to the entire lengths of two sides of buildings (Figure 6, Table 1).
- ISM soil sample D-19 was moved approximately 6 feet south to avoid the sampler having to enter the hole wherein was located the basement of the former house (Figure 8, Table 3).
- Three sample locations (SP-1 to SP-3) addressed the soil in the seepage pits adjacent to the former house (Figure 9, Table 1). Attempts were made to advance the borings inside the seepage pits, but retrieval of soil material was minimal, so the soil borings were moved to immediately outside the seepage pits. At each location, soil samples were collected at depths of 7 and 10 feet bgs. The ground surface elevation outside the seepage pits was approximately 4 feet higher than inside the seepage pits, so the sampling depths correspond to depths of approximately 3 and 6 feet below the top of the seepage pits.
- Four soil sample locations (EW-1 to EW-4) addressed potential chemical mixing near the irrigation well on parcel 481-090-028 (Figure 11, Table 1). At all of these locations, surface soil samples were collected from 0 to 6 inches bgs, and subsurface soil samples were collected from 2.0 to 2.5 feet bgs.

- The geophysical survey area was expanded somewhat from the area proposed in the PEA Workplan to provide better coverage (Figure 3).
- Since only two anomalous areas were identified by the geophysical survey, the number of active-soil-gas sample locations was reduced from three to two (Figure 11, Table 4).

13.0 CONCLUSIONS AND RECOMMENDATIONS

The subsections below present the conclusions and recommendations for this PEA.

13.1 SUMMARY AND CONCLUSIONS

The approximately 53-acre site has been active cropland traversed by an irrigation canal since the 1930s or earlier. Two older houses are still located on the site, and three former houses have been demolished. Historical records indicate that a former house compound located east of the canal had a UST, and no removal documentation has been found. The eastern portion of the site is now used as a school campus constructed entirely of portable buildings. Two of these portable buildings were constructed in 1985, and the remainder in 1993. A dry irrigation well is located in the southern portion of the school campus, and a second irrigation well is located east of the canal. A soil stockpile is located near the southern boundary of the site, east of the canal. The soil stockpile is assumed to have been generated by grading activities on the site.

The PEA field investigation was performed in April 2016. East of the canal, where a UST was possibly located near a former barn and shop, a geophysical survey was conducted to assess the actual UST location. The geophysical subconsultant concluded that no USTs were positively detected within the survey area. Two anomalous areas were identified as potential locations of a former UST. Based on these results, active soil gas samples were collected at these two locations at two depths, and the samples were submitted to an environmental laboratory for analysis of VOCs. Soil samples were collected at numerous on-site locations and submitted to environmental laboratories for analysis of various COPCs.

A human health screening evaluation was conducted using the laboratory analytical results. The maximum detected concentrations in soil and soil gas were compared to residential soil and air screening levels established by DTSC and USEPA.

The PEA findings are summarized as follows:

- Various naturally occurring metals were detected in the soil samples (Table 6), comprising arsenic, barium, chromium, cobalt, copper, lead, nickel, vanadium, zinc. The maximum detected concentrations of these metals are shown on Table 6. Except for arsenic and lead, all of these maximum concentrations are within the typical ranges of background concentrations in the site vicinity. One highly regarded California study of background metal concentrations included four soil samples collected in Fresno County [Kearney Foundation, 1996]. The ranges of background metal concentrations detected in these four Fresno County soil samples are presented in the fifth column of Table 13 for comparison to on-site soil conditions. These ranges of background concentrations are supported by numerous other site investigations performed throughout Fresno County. Except for arsenic and lead, the maximum metals concentrations detected in on-site soil samples were in all cases within the ranges of reported background concentrations, and in many cases were less than the minimum reported background concentrations (Table 13). For arsenic and lead, the 95%-UCL concentrations are within the ranges of reported

background concentrations. Metals were not included as COPCs for the human health screening evaluation, because the maximum detected, or calculated 95%-UCL, concentration were well within, or below, the range of regional background concentrations.

- Eight OCPs were detected in one or more soil samples (Table 7), comprising alpha-chlordane, gamma-chlordane, total chlordane, 4,4'-DDE, 4,4'-DDT, dieldrin, heptachlor, and heptachlor epoxide. The maximum detected concentrations of these OCPs are shown on Table 13. Based on the elevated chlordane concentration in composite soil sample AB-0.5', consisting of samples from locations EH-1AB, EH-2AB, EH-3AB, and EH-4AB near the existing house on parcel 481-090-016 (west of the canal), followup OCP analyses were conducted on the four discrete samples and also on discrete surface soil sample EH-12-0.5' collected approximately 8 feet east of the house adjacent to the concrete sidewalk that extends along the eastern side of the house (Table 7). In addition, followup soil sampling was performed at four additional locations (EH-14, EH-15, EH-16, and EH-17) adjacent to the east side of the house (Figure 12). Two of these discrete samples (EH-2AB-0.5' and EH-3AB-0.5') contained chlordane concentrations exceeding the DTSC-recommended residential screening level of 430 µg/kg, but none of the followup soil samples contained chlordane concentrations exceeding the screening level (Table 7). The maximum detected chlordane concentration was 1,670 µg/kg, which is somewhat higher than the screening level, but still corresponds to a cancer risk within the range that has been considered acceptable by DTSC for other California school sites. Chlordane was not detected in the composite subsurface soil sample AB-2.5', which consisted of subsurface soil samples collected at 2.5 feet bgs at the four locations around the house. Based on the analyzed soil samples, it appears that only a limited volume of soil adjacent to the house contains chlordane at concentrations exceeding the residential screening level.
- Ethylbenzene and total xylenes were detected in one soil sample (SP-1-10.0') collected at a depth of 10 feet bgs adjacent to one of the seepage pits on parcel 481-090-027, east of the canal (Table 8). The maximum detected concentrations of these VOCs are shown on Table 13. None of these maximum concentrations exceeded, or even approached, the carcinogenic or noncancer screening levels (Table 15), indicating that no significant concern for VOCs in soil is present.
- Arsenic, lead, and six OCPs were detected in the ISM replicate samples collected in the two DUs east of the canal (Table 9). The detected arsenic and lead concentrations are within the ranges of typical background concentrations. The maximum chlordane concentration in the first DU was 1.1 mg/kg, which is somewhat higher than the DTSC residential soil screening level of 0.43 mg/kg, but still corresponds to a cancer risk within the range that has been considered acceptable by DTSC for other California school sites.
- Eight VOC analytes were detected in one or more active-soil-gas samples (Table 10). The maximum detected concentrations of these VOCs are shown on Table 14. After multiplying by the DTSC default attenuation factor for future residential buildings of 0.001, the predicted indoor air concentrations did not exceed, or even approach, the carcinogenic or noncancer screening levels (Table 15), indicating that no significant concern for VOCs in soil gas is present.

13.2 RECOMMENDATIONS

Based on the findings summarized above, AECOM recommends that DTSC approve this PEA Report with a no-further-action determination.

The following issues were outside the scope of the PEA and need to be addressed separately by FUSD:

- The PEA addressed the potential for lead-based paint migration to surface soils located exterior to existing on-site structures. However, the PEA did not address the possibility that hazardous materials, such as lead-based paint, asbestos-containing materials, or PCBs, may be present within the building materials themselves. Depending upon the plans for these structures, further assessment of this possibility may be necessary to meet other regulatory requirements outside the PEA process.

14.0 LIMITATIONS

This report was prepared in accordance with the scope of services set forth in the written agreement signed by Client and AECOM. No other services beyond those explicitly stated should be inferred or are implied. This report was prepared by AECOM for Client in a manner consistent with the level of care and skill ordinarily exercised by professional engineers, geologists, and environmental scientists in the geographic area of the site at the time AECOM's services were provided. AECOM provides no other warranties, either express or implied, concerning the contents of this report, which was prepared under the technical direction of the AECOM staff whose signatures appear on the cover letter included with this report. This report is intended for use in its entirety. No excerpts may be taken to be representative of the findings of this assessment.

The conclusions presented in this report are professional opinions based solely on AECOM's review of available historical information, observations of the site, review of lithologic/chemical data from borings drilled at the site, and review of other readily available information, as referenced in this report. The conclusions presented herein are intended exclusively for the objective stated herein, at the site indicated, and for the project indicated. Subsurface investigations inherently involve some measure of uncertainty due to the impossibility of fully characterizing the entire subsurface volume beneath a site. Analytical results from this PEA are believed to be representative of the concentrations of those chemicals selected for analysis at the locations and depths from which the samples were collected. There may be other chemicals present in the samples that were not detectable using the selected analytical methods. In addition, these analytical results may not be representative of conditions at other locations and depths at the site. Conditions may change with the passage of time.

This report is intended for use solely by Client. The scope of services performed during this investigation may not be appropriate for other users, and any use or re-use of this document, or the findings, conclusions, or recommendations presented herein, is at the sole risk of said users.

Opinions and recommendations presented in this report apply to site conditions and features as they existed at the time of AECOM's site visits. They do not necessarily apply to conditions or features of which AECOM is unaware and has not had the opportunity to evaluate.

15.0 REFERENCES

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TABLE 1
ANALYSES ON DISCRETE SOIL SAMPLES
Planned School Site
Church and Peach Avenues, Fresno, CA
Page 1 of 3

Sample Location	Sample Depth	Environmental Concern	Arsenic (USEPA 6010B)	OCPs (USEPA 8081A)	Lead (USEPA 6010B)	PCBs (USEPA 8082)	Title 22 Metals (USEPA 6010B/7471A)	TPH-g/d/o (USEPA 8015M)	VOCs (USEPA 5035A/8260B)	semi-VOCs (USEPA 8270C)	Laboratory Duplicate
B-1	0 - 0.5'	Basement hole of former house on parcel 481-090-027	X	X	X	X					X
B-2	0 - 0.5'	Basement hole of former house on parcel 481-090-027	X	X	X	X					
B-3	0 - 0.5'	Basement hole of former house on parcel 481-090-027	X	X	X	X					
B-4	0 - 0.5'	Basement hole of former house on parcel 481-090-027	X	X	X	X					
EH-1AB	0 - 0.5'	Lead and OCPs in soil near existing house		X	X						
EH-2AB	0 - 0.5'	Lead in soil near existing house		X	X						
EH-3AB	0 - 0.5'	Lead in soil near existing house		X	X						
EH-4AB	0 - 0.5'	Lead in soil near existing house		X	X						
EH-5	0 - 0.5'	Lead in soil near existing metal shed			X						
EH-6	0 - 0.5'	Lead in soil near existing metal shed			X						
EH-7	0 - 0.5'	PCBs in soil underneath pole-mounted transformer				X					
EH-7	2 - 2.5'	PCBs in soil underneath pole-mounted transformer				H					
EH-8AC	0 - 0.5'	Lead in soil near existing wood shed			X						X
EH-9AC	0 - 0.5'	Lead in soil near existing wood shed			X						
EH-10AC	0 - 0.5'	Lead in soil near existing wood shed			X						
EH-11AC	0 - 0.5'	Lead in soil near existing wood shed			X						
EH-12	0 - 0.5'	Lead and OCPs in soil near existing house		X	X						
EH-13	0 - 0.5'	Lead in soil near existing wood shed			X						
EH-14	0 - 0.5'	OCPs in soil near existing house		X							
EH-15	0 - 0.5'	OCPs in soil near existing house		X							
EH-16	0 - 0.5'	OCPs in soil near existing house		X							
EH-17	0 - 0.5'	OCPs in soil near existing house		X							
ES-1	0 - 0.5'	Lead in soil near older portable school building			X						X
ES-2	0 - 0.5'	Lead in soil near older portable school building			X						
ES-3	0 - 0.5'	Lead in soil near older portable school building			X						
ES-4	0 - 0.5'	Lead in soil near older portable school building			X						
ES-5	0 - 0.5'	Lead in soil near older portable school building			X						
ES-6	0 - 0.5'	Lead in soil near older portable school building			X						
ES-7	0 - 0.5'	Lead in soil near older portable school building			X						
ES-8	0 - 0.5'	Lead in soil near older portable school building			X						
EW-1	0 - 0.5'	Agricultural chemicals near irrigation well	X	X							
EW-1	2 - 2.5'	Agricultural chemicals near irrigation well	X	X							
EW-2	0 - 0.5'	Agricultural chemicals near irrigation well	X	X							
EW-2	2 - 2.5'	Agricultural chemicals near irrigation well	X	X							
EW-3	0 - 0.5'	Agricultural chemicals near irrigation well	X	X							
EW-3	2 - 2.5'	Agricultural chemicals near irrigation well	X	X							
EW-4	0 - 0.5'	Agricultural chemicals near irrigation well	X	X							
EW-4	2 - 2.5'	Agricultural chemicals near irrigation well	X	X							
FH-1W	0 - 0.5'	Lead in soil near former house			X						

TABLE 1
 ANALYSES ON DISCRETE SOIL SAMPLES
 Planned School Site
 Church and Peach Avenues, Fresno, CA
 Page 3 of 3

Sample Location	Sample Depth	Environmental Concern	Arsenic (USEPA 6010B)	OCPs (USEPA 8081A)	Lead (USEPA 6010B)	PCBs (USEPA 8082)	Title 22 Metals (USEPA 6010B/7471A)	TPH-g/d/o (USEPA 8015M)	VOCs (USEPA 5035A/8260B)	semi-VOCs (USEPA 8270C)	Laboratory Duplicate
S-79T	0 - 0.5'	Agricultural chemicals on canal bank	X								
S-80T	0 - 0.5'	Agricultural chemicals on canal bank	X								
S-81U	0 - 0.5'	Agricultural chemicals on canal bank	X								
S-82U	0 - 0.5'	Agricultural chemicals on canal bank	X								
S-83U	0 - 0.5'	Agricultural chemicals on canal bank	X								
SP-1	2.5 - 3.0'	Seepage pit near former house on parcel 481-090-027		X			X	X	X	X	X
SP-1	5.5 - 6.0'	Seepage pit near former house on parcel 481-090-027		X			X	X	X	X	
SP-2	2.5 - 3.0'	Seepage pit near former house on parcel 481-090-027		X			X	X	X	X	
SP-2	5.5 - 6.0'	Seepage pit near former house on parcel 481-090-027		X			X	X	X	X	
SP-3	2.5 - 3.0'	Seepage pit near former house on parcel 481-090-027		X			X	X	X	X	
SP-3	5.5 - 6.0'	Seepage pit near former house on parcel 481-090-027		X			X	X	X	X	
WH-1Y	0 - 0.5'	Lead in soil near existing house			X						X
WH-2Y	0 - 0.5'	Lead in soil near existing house			X						
WH-3Y	0 - 0.5'	Lead in soil near existing house			X						
WH-4Y	0 - 0.5'	Lead in soil near existing house			X						
WH-5Z	0 - 0.5'	Lead in soil near existing wooden shed			X						
WH-6Z	0 - 0.5'	Lead in soil near existing wooden shed			X						
WH-7AA	0 - 0.5'	Lead in soil near existing wooden garage			X						
WH-8AA	0 - 0.5'	Lead in soil near existing wooden garage			X						
WH-9AA	0 - 0.5'	Lead in soil near existing wooden garage			X						
WH-10AA	0 - 0.5'	Lead in soil near existing wooden garage			X						
WH-11	0 - 0.5'	PCBs in soil underneath pole-mounted transformer							X		
WH-11	2 - 2.5'	PCBs in soil underneath pole-mounted transformer							H		

NOTES:
 An "X" indicates that the sample was analyzed for that chemical group. An "H" indicates that the sample was placed on hold for possible analysis pending results for the initial samples, but was never analyzed.
 USEPA = U.S. Environmental Protection Agency
 OCPs = organochlorine pesticides
 PCBs = polychlorinated biphenyls
 TPH-g/d/o = total petroleum hydrocarbons in gasoline/diesel/oil ranges
 VOCs = volatile organic compounds

TABLE 2
ANALYSES ON COMPOSITE SOIL SAMPLES
Planned School Site
Church and Peach Avenues, Fresno, CA
Page 1 of 5

Composite Sample Name	Discrete Samples Included	Environmental Concern	OCPs (USEPA 8081A)	Arsenic (USEPA 6010B)	Lead (USEPA 6010B)	PCBs (USEPA 8082)	Laboratory Duplicate
A-0.5'	S-1A-0.5' S-2A-0.5' S-3A-0.5' S-4A-0.5'	Cropland agricultural chemical applications	X				X
B-0.5'	S-5B-0.5' S-6B-0.5' S-7B-0.5' S-8B-0.5'	Cropland agricultural chemical applications	X				
C-0.5'	S-9C-0.5' S-10C-0.5' S-11C-0.5' S-12C-0.5'	Cropland agricultural chemical applications	X				
D-0.5'	S-13D-0.5' S-14D-0.5' S-15D-0.5' S-16D-0.5'	Cropland agricultural chemical applications	X				
E-0.5'	S-17E-0.5' S-18E-0.5' S-19E-0.5' S-20E-0.5'	Cropland agricultural chemical applications	X				
F-0.5'	S-21F-0.5' S-22F-0.5' S-23F-0.5' S-24F-0.5'	Cropland agricultural chemical applications	X				
G-0.5'	S-25G-0.5' S-26G-0.5' S-27G-0.5' S-28G-0.5'	Cropland agricultural chemical applications	X				
H-0.5'	S-29H-0.5' S-30H-0.5' S-31H-0.5' S-32H-0.5'	Cropland agricultural chemical applications	X				
I-0.5'	S-33I-0.5' S-34I-0.5' S-35I-0.5' S-36I-0.5'	Cropland agricultural chemical applications	X				
J-0.5'	S-37J-0.5' S-38J-0.5' S-39J-0.5' S-40J-0.5'	Cropland agricultural chemical applications	X				

TABLE 2
ANALYSES ON COMPOSITE SOIL SAMPLES
Planned School Site
Church and Peach Avenues, Fresno, CA
Page 2 of 5

Composite Sample Name	Discrete Samples Included	Environmental Concern	OCPs (USEPA 8081A)	Arsenic (USEPA 6010B)	Lead (USEPA 6010B)	PCBs (USEPA 8082)	Laboratory Duplicate
K-0.5'	S-41K-0.5' S-42K-0.5' S-43K-0.5' S-44K-0.5'	Cropland agricultural chemical applications	X				X
L-0.5'	S-45L-0.5' S-46L-0.5' S-47L-0.5' S-48L-0.5'	Cropland agricultural chemical applications	X				
M-0.5'	S-49M-0.5' S-50M-0.5' S-51M-0.5' S-52M-0.5'	Cropland agricultural chemical applications	X				
N-0.5'	S-53N-0.5' S-54N-0.5' S-55N-0.5' S-56N-0.5'	Cropland agricultural chemical applications	X				
O-0.5'	S-57O-0.5' S-58O-0.5' S-59O-0.5' S-60O-0.5'	Cropland agricultural chemical applications	X				
P-0.5'	S-61P-0.5' S-62P-0.5' S-63P-0.5' S-64P-0.5'	Cropland agricultural chemical applications	X				
Q-0.5'	S-65Q-0.5' S-66Q-0.5' S-67Q-0.5' S-68Q-0.5'	Cropland agricultural chemical applications	X				
R-0.5'	S-69R-0.5' S-70R-0.5' S-71R-0.5' S-72R-0.5'	Cropland agricultural chemical applications	X				
S-0.5'	S-73S-0.5' S-74S-0.5' S-75S-0.5' S-76S-0.5'	Agricultural chemicals on canal bank	X				
T-0.5'	S-77T-0.5' S-78T-0.5' S-79T-0.5' S-80T-0.5'	Agricultural chemicals on canal bank	X				

TABLE 2
ANALYSES ON COMPOSITE SOIL SAMPLES
Planned School Site
Church and Peach Avenues, Fresno, CA
Page 3 of 5

Composite Sample Name	Discrete Samples Included	Environmental Concern	OCPs (USEPA 8081A)	Arsenic (USEPA 6010B)	Lead (USEPA 6010B)	PCBs (USEPA 8082)	Laboratory Duplicate
U-0.5'	S-81U-0.5' S-82U-0.5' S-83U-0.5'	Agricultural chemicals on canal bank	X				X
W-0.5'	FH-1W-0.5' FH-2W-0.5' FH-3W-0.5'	Termiticides near former house	X				
W-2.5'	FH-1W-2.5' FH-2W-2.5' FH-3W-2.5'	Termiticides near former house	X				
X-0.5'	FH-4X-0.5' FH-5X-0.5' FH-6X-0.5'	Termiticides near former house	X				
X-2.5'	FH-4X-2.5' FH-5X-2.5' FH-6X-2.5'	Termiticides near former house	X				
Y-0.5'	WH-1Y-0.5' WH-2Y-0.5' WH-3Y-0.5' WH-4Y-0.5'	Termiticides near existing house	X				
Y-2.5'	WH-1Y-2.5' WH-2Y-2.5' WH-3Y-2.5' WH-4Y-2.5'	Termiticides near existing house	X				
Z-0.5'	WH-5Z-0.5' WH-6Z-0.5'	Termiticides near existing wooden shed	X				
Z-2.5'	WH-5Z-2.5' WH-6Z-2.5'	Termiticides near existing wooden shed	X				
AA-0.5'	WH-7AA-0.5' WH-8AA-0.5' WH-9AA-0.5' WH-10AA-0.5'	Termiticides near existing wooden garage	X				X
AA-2.5'	WH-7AA-2.5' WH-8AA-2.5' WH-9AA-2.5' WH-10AA-2.5'	Termiticides near existing wooden garage	X				
AB-0.5'	EH-1AB-0.5' EH-2AB-0.5' EH-3AB-0.5' EH-4AB-0.5'	Termiticides near existing house	X				

TABLE 2
ANALYSES ON COMPOSITE SOIL SAMPLES
Planned School Site
Church and Peach Avenues, Fresno, CA
Page 4 of 5

Composite Sample Name	Discrete Samples Included	Environmental Concern	OCPs (USEPA 8081A)	Arsenic (USEPA 6010B)	Lead (USEPA 6010B)	PCBs (USEPA 8082)	Laboratory Duplicate
AB-2.5'	EH-1AB-2.5' EH-2AB-2.5' EH-3AB-2.5' EH-4AB-2.5'	Termiticides near existing house	X				
AC-0.5'	EH-8AC-0.5' EH-9AC-0.5' EH-10AC-0.5' EH-11AC-0.5'	Termiticides near existing wooden shed	X				
AC-2.5'	EH-8AC-2.5' EH-9AC-2.5' EH-10AC-2.5' EH-11AC-2.5'	Termiticides near existing wooden shed	X				
ID-1/2/3	ID-1-0.5' ID-2-0.5' ID-3-0.5'	Agricultural chemicals in irrigation ditch	X	X			
NS-1	NS-1-0.5' NS-1-2.5'	Soil stockpile near former house on parcel 481-090-027	X	X	X	X	X
NS-2	NS-2-0.5' NS-2-2.5'	Soil stockpile near former house on parcel 481-090-027	X	X	X	X	
NS-3	NS-3-0.5' NS-3-2.5'	Soil stockpile near former house on parcel 481-090-027	X	X	X	X	
NS-4	NS-4-0.5' NS-4-2.5'	Soil stockpile near former house on parcel 481-090-027	X	X	X	X	
SS-1	SS-1-0.5' SS-1-3.5'	Soil stockpile in southwest corner of parcel 481-090-028	X	X			
SS-2	SS-2-0.5' SS-2-4.0' SS-2-7.0'	Soil stockpile in southwest corner of parcel 481-090-028	X	X			
SS-3	SS-3-0.5' SS-4-3.5'	Soil stockpile in southwest corner of parcel 481-090-028	X	X			
SS-4	SS-4-0.5' SS-4-3.5'	Soil stockpile in southwest corner of parcel 481-090-028	X	X			
SS-5	SS-5-0.5' SS-5-4.0' SS-5-7.0'	Soil stockpile in southwest corner of parcel 481-090-028	X	X			
SS-6	SS-6-0.5' SS-6-4.0' SS-6-7.0'	Soil stockpile in southwest corner of parcel 481-090-028	X	X			

TABLE 2
 ANALYSES ON COMPOSITE SOIL SAMPLES
 Planned School Site
 Church and Peach Avenues, Fresno, CA
 Page 5 of 5

Composite Sample Name	Discrete Samples Included	Environmental Concern	OCPs (USEPA 8081A)	Arsenic (USEPA 6010B)	Lead (USEPA 6010B)	PCBs (USEPA 8082)	Laboratory Duplicate
SS-7	SS-7-0.5' SS-7-3.5'	Soil stockpile in southwest corner of parcel 481-090-028	X	X			X
SS-8	SS-8-0.5' SS-8-3.5'	Soil stockpile in southwest corner of parcel 481-090-028	X	X			
SS-9	SS-9-0.5' SS-9-4.0' SS-9-7.0'	Soil stockpile in southwest corner of parcel 481-090-028	X	X			
SS-10	SS-10-0.5' SS-10-3.5'	Soil stockpile in southwest corner of parcel 481-090-028	X	X			

NOTES:

An "X" indicates that the sample was analyzed for that chemical group.

USEPA = U.S. Environmental Protection Agency

OCPs = organochlorine pesticides

PCBs = polychlorinated biphenyls

TABLE 3
ANALYSES ON ISM SOIL SAMPLES
Planned School Site
Church and Peach Avenues, Fresno, CA
Page 1 of 1

Sample Name	Sample Depth	Environmental Concern	Arsenic (USEPA 6010B)	OCPs (USEPA 8081A)	Lead (USEPA 6010B)
Replicate A	0 - 0.25'	Lead and agricultural chemicals in former house area	X	X	X
Replicate B	0 - 0.25'	Lead and agricultural chemicals in former house area	X	X	X
Replicate C	0 - 0.25'	Lead and agricultural chemicals in former house area	X	X	X
Replicate D	0 - 0.25'	Lead and agricultural chemicals in former house area	X	X	X
Replicate E	0 - 0.25'	Lead and agricultural chemicals in former house area	X	X	X
Replicate F	0 - 0.25'	Lead and agricultural chemicals in former house area	X	X	X

NOTES:

Each ISM sample consist of a minimum of 30 incremental soil samples that were mixed together.

An "X" indicates that the sample was analyzed for that chemical group.

Laboratory sample preparation followed the steps set forth in the PEA Workplan.

ISM = incremental sampling methodology

USEPA = U.S. Environmental Protection Agency

OCPs = organochlorine pesticides

TABLE 4
ANALYSES ON ACTIVE SOIL GAS SAMPLES
 Planned School Site
 Church and Peach Avenues, Fresno, CA
 Page 1 of 1

Sample Location	Sample Depth (feet)	Environmental Concern	VOCs + Napthalene & TPHg (USEPA TO-15)	Field Duplicate Sample
AG-1	5	Potential releases from gasoline UST	X	X
AG-1	10	Potential releases from gasoline UST	X	
AG-2	5	Potential releases from gasoline UST	X	
AG-2	10	Potential releases from gasoline UST	X	
AG-3	5	Potential releases from gasoline UST	X	
AG-3	10	Potential releases from gasoline UST	X	

NOTES:

An "X" indicates that the sample was analyzed for that chemical group.

USEPA = U.S. Environmental Protection Agency

TPHg = total petroleum hydrocarbons referenced to gasoline

VOCs = volatile organic compounds

UST = underground storage tank

TABLE 5
ANALYSES ON WATER SAMPLES
Planned School Site
Church and Peach Avenues, Fresno, CA
Page 1 of 1

Sample Name	Sample Type	Arsenic (USEPA 6010B)	Lead (USEPA 6010B)	Title 22 Metals (USEPA 6010B/ 7470A)	OCPs (USEPA 8081A)	PCBs (USEPA 8082)	TPH-g/d/o (USEPA 8015M)	VOCs (USEPA 8260B)	semi-VOCs (USEPA 8270C)
MW-1	Field Equipment Rinsate Blank			X	X	X	X	X	X
MW-1	Field Equipment Rinsate Blank	X	X		X	X			
MW-1	Field Equipment Rinsate Blank		X		X	X			
MW-1	Field Equipment Rinsate Blank		X		X				

NOTES:

An "X" indicates that the sample was analyzed for that chemical group.

USEPA = U.S. Environmental Protection Agency

OCPs = organochlorine pesticides

PCBs = polychlorinated biphenyls

TPH-g/d/o = total petroleum hydrocarbons in the gasoline/diesel/oil ranges

VOCs = volatile organic compounds

TABLE 6
SOIL ANALYTICAL RESULTS, TITLE 22 METALS
Planned School Site
E. Church and S. Peach Avenues
Fresno, Fresno County, CA
Page 1 of 16

Sample Location:	B-1	B-1	B-2	B-3	B-4	EH-1AB	EH-2AB	EH-3AB
Sample Type:	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete
Sample ID:	B-1-0.5'	B-1-0.5' DUP	B-2-0.5'	B-3-0.5'	B-4-0.5'	EH-1AB-0.5'	EH-2AB-0.5'	EH-3AB-0.5'
Sample Date:	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/19/2016	4/19/2016	4/19/2016
Sample Depth:	0.5'	0.5'	0.5'	0.5'	0.5'	0.5'	0.5'	0.5'
Method ID:	USEPA 6010B	USEPA 6010B	USEPA 6010B	USEPA 6010B	USEPA 6010B	USEPA 6010B	USEPA 6010B	USEPA 6010B
ANALYTE	Units							
Antimony	mg/kg							
Arsenic	mg/kg	0.71	0.65	0.68	1.3	1.0		
Barium	mg/kg							
Beryllium	mg/kg							
Cadmium	mg/kg							
Chromium	mg/kg							
Cobalt	mg/kg							
Copper	mg/kg							
Lead	mg/kg	2.0	2.2	1.6	3.3	2.0	ND	8.4
Mercury	mg/kg							
Molybdenum	mg/kg							
Nickel	mg/kg							
Selenium	mg/kg							
Silver	mg/kg							
Thallium	mg/kg							
Vanadium	mg/kg							
Zinc	mg/kg							

NOTES:

Detected concentrations are printed in boldface type.

A blank cell indicates that the sample was not analyzed for that analyte.

Yellow highlighted cells indicate arsenic concentrations greater than apparent background level or lead concentrations greater than the DTSC screening level of 80 mg/kg.

USEPA = U.S. Environmental Protection Agency

J = analyte concentration is an estimated value between the method detection limit and the practical quantitation limit

mg/kg = milligrams per kilogram

DUP = laboratory duplicate

ND = not detected at or above the laboratory practical quantitation limit

TABLE 6
SOIL ANALYTICAL RESULTS, TITLE 22 METALS
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Sample Location:		ID-1/2/3	IW-1	IW-2	IW-3	IW-4	NS-1	NS-1
Sample Type:		Composite	Discrete	Discrete	Discrete	Discrete	Composite	Composite
Sample ID:		ID-1/2/3-0.5'	IW-1-0.5'	IW-2-0.5'	IW-3-0.5'	IW-4-0.5'	NS-1-0.5'/2.5'	NS-1-0.5'/2.5' DUP
Sample Date:		4/13/2016	4/14/2016	4/14/2016	4/14/2016	4/14/2016	4/13/2016	4/13/2016
Sample Depth:		0.5'	0.5'	0.5'	0.5'	0.5'	0.5'/2.5'	0.5'/2.5'
Method ID:		USEPA 6010B	USEPA 6010B	USEPA 6010B	USEPA 6010B	USEPA 6010B	USEPA 6010B	USEPA 6010B
ANALYTE	Units							
Antimony	mg/kg							
Arsenic	mg/kg	ND	0.86	1.1	0.99	1.1	0.70	0.98
Barium	mg/kg							
Beryllium	mg/kg							
Cadmium	mg/kg							
Chromium	mg/kg							
Cobalt	mg/kg							
Copper	mg/kg							
Lead	mg/kg						4.1	5.0
Mercury	mg/kg							
Molybdenum	mg/kg							
Nickel	mg/kg							
Selenium	mg/kg							
Silver	mg/kg							
Thallium	mg/kg							
Vanadium	mg/kg							
Zinc	mg/kg							

TABLE 6
SOIL ANALYTICAL RESULTS, TITLE 22 METALS
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Sample Location:		NS-2	NS-3	NS-4	S-1A	S-1A	S-6B	S-11C
Sample Type:		Composite	Composite	Composite	Discrete	Discrete	Discrete	Discrete
Sample ID:		NS-2-0.5'/2.5'	NS-3-0.5'/2.5'	NS-4-0.5'/2.5'	S-1A-0.5'	S-1A-0.5' DUP	S-6B-0.5'	S-11C-0.5'
Sample Date:		4/13/2016	4/13/2016	4/13/2016	4/14/2016	4/14/2016	4/14/2016	4/14/2016
Sample Depth:		0.5'/2.5'	0.5'/2.5'	0.5'/2.5'	0.5'	0.5'	0.5'	0.5'
Method ID:		USEPA 6010B	USEPA 6010B	USEPA 6010B	USEPA 6010B	USEPA 6010B	USEPA 6010B	USEPA 6010B
ANALYTE	Units							
Antimony	mg/kg							
Arsenic	mg/kg	1.1	1.5	1.1	1.6	1.6	1.1	0.92
Barium	mg/kg							
Beryllium	mg/kg							
Cadmium	mg/kg							
Chromium	mg/kg							
Cobalt	mg/kg							
Copper	mg/kg							
Lead	mg/kg	11.7	16.0	10.0				
Mercury	mg/kg							
Molybdenum	mg/kg							
Nickel	mg/kg							
Selenium	mg/kg							
Silver	mg/kg							
Thallium	mg/kg							
Vanadium	mg/kg							
Zinc	mg/kg							

TABLE 6
SOIL ANALYTICAL RESULTS, TITLE 22 METALS
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Sample Location:		S-82U	S-83U	SP-1	SP-1	SP-1	SP-2
Sample Type:		Discrete	Discrete	Discrete	Discrete	Discrete	Discrete
Sample ID:		S-82U-0.5'	S-83U-0.5'	SP-1-7.0'	SP-1-7.0' DUP	SP-1-10.0'	SP-2-7.0'
Sample Date:		4/18/2016	4/18/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016
Sample Depth:		0.5'	0.5'	7.0'	7.0'	10.0'	7.0'
Method ID:		USEPA 6010B	USEPA 6010B	USEPA 6010B/7471A	USEPA 6010B/7471A	USEPA 6010B/7471A	USEPA 6010B/7471A
ANALYTE	Units						
Antimony	mg/kg			ND	ND	ND	ND
Arsenic	mg/kg	2.9	2.7	2.0	2.4	0.76	1.2
Barium	mg/kg			53.5	50.2	67.3	61.4
Beryllium	mg/kg			ND	ND	ND	ND
Cadmium	mg/kg			ND	ND	ND	ND
Chromium	mg/kg			13.0	11.5	41.9	9.6
Cobalt	mg/kg			7.0	6.6	13.4	6.5
Copper	mg/kg			9.8	8.7	13.5	10.4
Lead	mg/kg			2.4	2.5	1.7 J	2.5
Mercury	mg/kg			ND	ND	ND	ND
Molybdenum	mg/kg			ND	ND	ND	ND
Nickel	mg/kg			35.1	30.5	111	32.2
Selenium	mg/kg			ND	ND	ND	ND
Silver	mg/kg			ND	ND	ND	ND
Thallium	mg/kg			ND	ND	ND	ND
Vanadium	mg/kg			40.3	36.9	54.2	36.3
Zinc	mg/kg			20.7	19.4	24.9	17.2

TABLE 6
SOIL ANALYTICAL RESULTS, TITLE 22 METALS
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Sample Location:		SP-2	SP-3	SP-3	SS-1	SS-2	SS-3
Sample Type:		Discrete	Discrete	Discrete	Composite	Composite	Composite
Sample ID:		SP-2-10.0'	SP-3-7.0'	SP-3-10.0'	SS-1-0.5'/3.5'	SS-2-0.5'/4.0'/7.0'	SS-3-0.5'/3.5'
Sample Date:		4/13/2016	4/13/2016	4/13/2016	4/12/2016	4/12/2016	4/12/2016
Sample Depth:		10.0'	7.0'	10.0'	0.5'/3.5'	0.5'/4.0'/7.0'	0.5'/3.5'
Method ID:		USEPA 6010B/7471A	USEPA 6010B/7471A	USEPA 6010B/7471A	USEPA 6010B	USEPA 6010B	USEPA 6010B
ANALYTE	Units						
Antimony	mg/kg	ND	ND	ND			
Arsenic	mg/kg	1.1	0.97	2.1	1.1	1.0	0.65
Barium	mg/kg	42.2	52.2	48.7			
Beryllium	mg/kg	ND	ND	ND			
Cadmium	mg/kg	ND	ND	ND			
Chromium	mg/kg	10.7	12.1	10.4			
Cobalt	mg/kg	4.6	5.1	4.6			
Copper	mg/kg	8.0	8.6	9.7			
Lead	mg/kg	2.4	3.1	2.4			
Mercury	mg/kg	ND	ND	ND			
Molybdenum	mg/kg	ND	ND	ND			
Nickel	mg/kg	20.6	11.9	11.5			
Selenium	mg/kg	ND	ND	ND			
Silver	mg/kg	ND	ND	ND			
Thallium	mg/kg	ND	ND	ND			
Vanadium	mg/kg	31.2	43.1	37.5			
Zinc	mg/kg	18.2	19.9	21.4			

TABLE 6
SOIL ANALYTICAL RESULTS, TITLE 22 METALS
Planned School Site
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Sample Location:		SS-4	SS-5	SS-6	SS-7	SS-7	SS-8	SS-9
Sample Type:		Composite	Composite	Composite	Composite	Composite	Composite	Composite
Sample ID:		SS-4-0.5'/3.5'	SS-5-0.5'/4.0'/7.0'	SS-6-0.5'/4.0'/7.0'	SS-7-0.5'/3.5'	SS-7-0.5'/3.5' DUP	SS-8-0.5'/3.5'	SS-9-0.5'/4.0'/7.0'
Sample Date:		4/12/2016	4/12/2016	4/12/2016	4/12/2016	4/12/2016	4/12/2016	4/12/2016
Sample Depth:		0.5'/3.5'	0.5'/4.0'/7.0'	0.5'/4.0'/7.0'	0.5'/3.5'	0.5'/3.5'	0.5'/3.5'	0.5'/4.0'/7.0'
Method ID:		USEPA 6010B	USEPA 6010B	USEPA 6010B	USEPA 6010B	USEPA 6010B	USEPA 6010B	USEPA 6010B
ANALYTE	Units							
Antimony	mg/kg							
Arsenic	mg/kg	1.2	0.73	1.1	1.1	1.1	1.3	1.1
Barium	mg/kg							
Beryllium	mg/kg							
Cadmium	mg/kg							
Chromium	mg/kg							
Cobalt	mg/kg							
Copper	mg/kg							
Lead	mg/kg							
Mercury	mg/kg							
Molybdenum	mg/kg							
Nickel	mg/kg							
Selenium	mg/kg							
Silver	mg/kg							
Thallium	mg/kg							
Vanadium	mg/kg							
Zinc	mg/kg							

TABLE 6
SOIL ANALYTICAL RESULTS, TITLE 22 METALS
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Sample Location:		WH-7AA	WH-8AA	WH-9AA	WH-10AA	WS-1/2/3/4	WS-5/6/7/8
Sample Type:		Discrete	Discrete	Discrete	Discrete	Composite	Composite
Sample ID:		WH-7AA-0.5'	WH-8AA-0.5'	WH-9AA-0.5'	WH-10AA-0.5'	WS-1/2/3/4-0.5'	WS-5/6/7/8-0.5'
Sample Date:		4/19/2016	4/19/2016	4/19/2016	4/19/2016	4/13/2016	4/13/2016
Sample Depth:		0.5'	0.5'	0.5'	0.5'	0.5'	0.5'
Method ID:		USEPA 6010B	USEPA 6010B	USEPA 6010B	USEPA 6010B	USEPA 6010B/7471A	USEPA 6010B/7471A
ANALYTE	Units						
Antimony	mg/kg					ND	ND
Arsenic	mg/kg					3.6	0.92
Barium	mg/kg					48.9	40.6
Beryllium	mg/kg					ND	ND
Cadmium	mg/kg					ND	ND
Chromium	mg/kg					21.8	6.2
Cobalt	mg/kg					8.3	4.2
Copper	mg/kg					9.0	8.4
Lead	mg/kg	15.6	12.7	16.2	8.9	5.9	3.3
Mercury	mg/kg					ND	ND
Molybdenum	mg/kg					ND	ND
Nickel	mg/kg					69.6	11.4
Selenium	mg/kg					ND	ND
Silver	mg/kg					ND	ND
Thallium	mg/kg					ND	ND
Vanadium	mg/kg					35.2	22.1
Zinc	mg/kg					23.8	14.6

TABLE 7
SOIL ANALYTICAL RESULTS, ORGANOCHLORINE PESTICIDES
Planned School Site
E. Church and S. Peach Avenues
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Sample Location:	B-1	B-1	B-2	B-3	B-4	EH-1AB/2AB/3AB/4AB	EH-1AB	EH-2AB
Sample Type:	Discrete	Discrete	Discrete	Discrete	Discrete	Composite	Discrete	Discrete
Sample ID:	B-1-0.5'	B-1-0.5' DUP	B-2-0.5'	B-3-0.5'	B-4-0.5'	AB-0.5'	EH-1AB-0.5'	EH-2AB-0.5'
Sample Date:	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/18/2016	4/18/2016	4/18/2016
Sample Depth:	0.5'	0.5'	0.5'	0.5'	0.5'	0.5'	0.5'	0.5'
Method ID:	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A
ANALYTE	Units							
Alpha-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	ug/kg	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ug/kg	ND	ND	ND	ND	ND	ND	ND
Aldrin	ug/kg	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	ug/kg	ND	ND	ND	ND	8.7	4.4	10.8
Endosulfan I	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ug/kg	63.9	15.2	17.8	155	69.1	5.9	ND
Dieldrin	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endrin	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ug/kg	215	ND	ND	5.0	ND	16.9	10.6
Endrin Aldehyde	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	ug/kg	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	ug/kg	ND	ND	ND	ND	ND	ND	ND
Alpha-Chlordane	ug/kg	ND	ND	ND	15.5	20.5	186	15.3
Gamma-Chlordane	ug/kg	ND	ND	ND	10.7	16.1	156	5.7
Total Chlordane	ug/kg	ND	ND	ND	140	147	816	186
Toxaphene	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endrin Ketone	ug/kg	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene (HCB)	ug/kg	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ug/kg	ND	ND	ND	ND	ND	ND	ND

NOTES:

Detected concentrations are printed in boldface type.

Yellow highlighted cells indicate technical (total) chlordane concentrations greater than the DTSC screening level of 0.43 mg/kg.

USEPA = U.S. Environmental Protection Agency

J = analyte concentration is an estimated value between the method detection limit and the practical quantitation limit

ug/kg = micrograms per kilogram

DUP = laboratory duplicate

ND = not detected at or above the laboratory practical quantitation limit

TABLE 7
SOIL ANALYTICAL RESULTS, ORGANOCHLORINE PESTICIDES
Planned School Site
E. Church and S. Peach Avenues
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Sample Location:		EH-3AB	EH-4AB	EH-1AB/2AB/3AB/4AB	EH-8AC/9AC/10AC/11AC	EH-8AC/9AC/10AC/11AC	EH-12	EH-14
Sample Type:		Discrete	Discrete	Composite	Composite	Composite	Discrete	Discrete
Sample ID:		EH-3AB-0.5'	EH-4AB-0.5'	AB-2.5'	AC-0.5'	AC-2.5'	EH-12-0.5'	EH-14-0.5'
Sample Date:		4/18/2016	4/18/2016	4/18/2016	4/18/2016	4/18/2016	4/18/2016	5/26/2016
Sample Depth:		0.5'	0.5'	2.5'	0.5'	2.5'	0.5'	0.5'
Method ID:		USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A
ANALYTE	Units							
Alpha-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	ug/kg	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ug/kg	ND	ND	ND	ND	ND	ND	ND
Aldrin	ug/kg	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ug/kg	ND	ND	ND	49.2	ND	7.9	173
Dieldrin	ug/kg	ND	ND	ND	ND	ND	13.7	17.3
Endrin	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ug/kg	ND	ND	ND	15.8	ND	23.1	19.9
Endrin Aldehyde	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	ug/kg	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	ug/kg	ND	ND	ND	ND	ND	ND	ND
Alpha-Chlordane	ug/kg	50.0	ND	ND	ND	ND	5.8	75.5
Gamma-Chlordane	ug/kg	18.1	ND	ND	ND	ND	2.4 J	55.2
Total Chlordane	ug/kg	598	ND	ND	ND	ND	17.5 J	245
Toxaphene	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endrin Ketone	ug/kg	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene (HCB)	ug/kg	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ug/kg	ND	ND	ND	ND	ND	ND	ND

TABLE 7
SOIL ANALYTICAL RESULTS, ORGANOCHLORINE PESTICIDES
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Sample Location:	EW-4	EW-4	FH-1W/2W/3W	FH-1W/2W/3W	FH-1W/2W/3W	FH-4X/5X/6X	FH-4X/5X/6X	ID-1/2/3
Sample Type:	Discrete	Discrete	Composite	Composite	Composite	Composite	Composite	Composite
Sample ID:	EW-4-0.5'	EW-4-2.0'	W-0.5'	W-0.5' DUP	W-2.5'	X-0.5'	X-2.5'	ID-1/2/3-0.5'
Sample Date:	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016
Sample Depth:	0.5'	2.0'	0.5'	0.5'	2.5'	0.5'	2.5'	0.5'
Method ID:	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A
ANALYTE	Units							
Alpha-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	ug/kg	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ug/kg	ND	ND	ND	ND	ND	ND	ND
Aldrin	ug/kg	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ug/kg	ND	ND	151	126	ND	169	10.1
Dieldrin	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endrin	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ug/kg	ND	ND	73.7	62.8	ND	33.5	ND
Endrin Aldehyde	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	ug/kg	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	ug/kg	ND	ND	ND	ND	ND	ND	ND
Alpha-Chlordane	ug/kg	ND	ND	ND	ND	ND	5.7	ND
Gamma-Chlordane	ug/kg	ND	ND	3.2 J	5.5	ND	4.1 J	ND
Total Chlordane	ug/kg	ND	ND	21.5 J	22.2 J	ND	22.6	ND
Toxaphene	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endrin Ketone	ug/kg	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene (HCB)	ug/kg	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ug/kg	ND	ND	ND	ND	ND	ND	ND

TABLE 7
SOIL ANALYTICAL RESULTS, ORGANOCHLORINE PESTICIDES
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Sample Location:		S-1A/2A/3A/4A	S-1A/2A/3A/4A	S-5B/6B/7B/8B	S-9C/10C/11C/12C	S-13D/14D/15D/16D	S-13D/14D/15D/16D	S-25G/26G/27G/28G
Sample Type:		Composite	Composite	Composite	Composite	Composite	Composite	Composite
Sample ID:		A-0.5'	A-0.5' DUP	B-0.5'	C-0.5'	D-0.5'	E-0.5'	G-0.5'
Sample Date:		4/14/2016	4/14/2016	4/14/2016	4/14/2016	4/14/2016	4/14/2016	4/13/2016
Sample Depth:		0.5'	0.5'	0.5'	0.5'	0.5'	0.5'	0.5'
Method ID:		USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A
ANALYTE	Units							
Alpha-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	ug/kg	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ug/kg	ND	ND	ND	ND	ND	ND	ND
Aldrin	ug/kg	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ug/kg	45.5	53.8	17.7	ND	11.9	ND	7.2
Dieldrin	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endrin	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ug/kg	13.4	12.5	7.4	4.1 J	3.3 J	ND	ND
Endrin Aldehyde	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	ug/kg	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	ug/kg	ND	ND	ND	ND	ND	ND	ND
Alpha-Chlordane	ug/kg	ND	ND	ND	ND	ND	ND	ND
Gamma-Chlordane	ug/kg	ND	ND	ND	ND	ND	ND	ND
Total Chlordane	ug/kg	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endrin Ketone	ug/kg	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene (HCB)	ug/kg	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ug/kg	ND	ND	ND	ND	ND	ND	ND

TABLE 7
SOIL ANALYTICAL RESULTS, ORGANOCHLORINE PESTICIDES
Planned School Site
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Sample Location:		S-29H/30H/31H/32H	S-33I/34I/35I/36I	S-37J/38J/39J/40J	S-41K/42K/43K/44K	S-45L/46L/47L/48L	S-49M/50M/51M/52M	S-53N/54N/55N/56N
Sample Type:		Composite	Composite	Composite	Composite	Composite	Composite	Composite
Sample ID:		H-0.5'	I-0.5'	J-0.5'	K-0.5'	L-0.5'	M-0.5'	N-0.5'
Sample Date:		4/13/2016	4/12/2016	4/12/2016	4/12/2016	4/11/2016	4/13/2016	4/11/2016
Sample Depth:		0.5'	0.5'	0.5'	0.5'	0.5'	0.5'	0.5'
Method ID:		USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A
ANALYTE	Units							
Alpha-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	ug/kg	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ug/kg	ND	ND	ND	ND	ND	ND	ND
Aldrin	ug/kg	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ug/kg	40.2	33.6	55.3	47.1	12.6	25.6	11.4
Dieldrin	ug/kg	ND	6.0	9.9	3.2	ND	ND	4.3 J
Endrin	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ug/kg	3.0 J	7.5	6.0	9.4	ND	ND	ND
Endrin Aldehyde	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	ug/kg	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	ug/kg	ND	ND	ND	ND	ND	ND	ND
Alpha-Chlordane	ug/kg	ND	ND	ND	ND	ND	ND	ND
Gamma-Chlordane	ug/kg	ND	ND	ND	ND	ND	ND	ND
Total Chlordane	ug/kg	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endrin Ketone	ug/kg	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene (HCB)	ug/kg	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ug/kg	ND	ND	ND	ND	ND	ND	ND

TABLE 7
SOIL ANALYTICAL RESULTS, ORGANOCHLORINE PESTICIDES
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Sample Location:		S-57O/58O/59O/60O	S-61P/62P/63P/64P	S-65Q/66Q/67Q/68Q	S-69R/70R/71R/72R	S-73S/74S/75S/76S	S-77T/78T/79T/80T	S-81U/82U/83U
Sample Type:		Composite	Composite	Composite	Composite	Composite	Composite	Composite
Sample ID:		O-0.5'	P-0.5'	Q-0.5'	R-0.5'	S-0.5'	T-0.5'	U-0.5'
Sample Date:		4/13/2016	4/13/2016	4/13/2016	4/11/2016	4/18/2016	4/18/2016	4/18/2016
Sample Depth:		0.5'	0.5'	0.5'	0.5'	0.5'	0.5'	0.5'
Method ID:		USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A
ANALYTE	Units							
Alpha-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	ug/kg	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ug/kg	ND	ND	ND	ND	ND	ND	3.5 J
Aldrin	ug/kg	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	ug/kg	ND	ND	ND	ND	3.0 J	ND	ND
Endosulfan I	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ug/kg	35.6	33.7	23.8	15.4	37.2	64.8	35.2
Dieldrin	ug/kg	ND	ND	ND	7.4	ND	ND	ND
Endrin	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ug/kg	ND	5.9	ND	ND	73.3	54.3	44.0
Endrin Aldehyde	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	ug/kg	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	ug/kg	ND	ND	ND	ND	ND	ND	ND
Alpha-Chlordane	ug/kg	ND	ND	ND	ND	4.2 J	7.2	26.5
Gamma-Chlordane	ug/kg	ND	ND	ND	ND	6.2	7.0	26.5
Total Chlordane	ug/kg	ND	ND	ND	ND	26.8	34.6	129
Toxaphene	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endrin Ketone	ug/kg	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene (HCB)	ug/kg	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ug/kg	ND	ND	ND	ND	ND	ND	ND

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Sample Location:	S-81U/82U/83U	SP-1	SP-1	SP-1	SP-2	SP-2	SP-3	SP-3
Sample Type:	Composite	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete
Sample ID:	U-0.5' DUP	SP-1-7.0'	SP-1-7.0' DUP	SP-1-10.0'	SP-2-7.0'	SP-2-10.0'	SP-3-7.0'	SP-3-10.0'
Sample Date:	4/18/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016
Sample Depth:	0.5'	7.0'	7.0'	10.0'	7.0'	10.0'	7.0'	10.0'
Method ID:	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A
ANALYTE	Units							
Alpha-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	ug/kg	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ug/kg	3.6 J	ND	ND	ND	ND	ND	ND
Aldrin	ug/kg	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ug/kg	40.6	ND	ND	ND	ND	ND	ND
Dieldrin	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endrin	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ug/kg	57.5	ND	ND	ND	ND	ND	ND
Endrin Aldehyde	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	ug/kg	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	ug/kg	ND	ND	ND	ND	ND	ND	ND
Alpha-Chlordane	ug/kg	26.1	ND	ND	ND	ND	ND	ND
Gamma-Chlordane	ug/kg	26.0	ND	ND	ND	ND	ND	ND
Total Chlordane	ug/kg	128	ND	ND	ND	ND	ND	ND
Toxaphene	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endrin Ketone	ug/kg	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene (HCB)	ug/kg	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ug/kg	ND	ND	ND	ND	ND	ND	ND

TABLE 7
SOIL ANALYTICAL RESULTS, ORGANOCHLORINE PESTICIDES
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Sample Location:		SS-8	SS-9	SS-10	WH-1Y/2Y/3Y/4Y	WH-1Y/2Y/3Y/4Y	WH-5Z/6Z	WH-5Z/6Z
Sample Type:		Composite	Composite	Composite	Composite	Composite	Composite	Composite
Sample ID:		SS-8-0.5'/3.5'	SS-9-0.5'/4.0'/7.0'	SS-10-0.5'/3.5'	Y-0.5'	Y-2.5'	Z-0.5'	Z-2.5'
Sample Date:		4/12/2016	4/12/2016	4/12/2016	4/19/2016	4/19/2016	4/19/2016	4/19/2016
Sample Depth:		0.5'/3.5	0.5'/4.0'/7.0'	0.5'/3.5'	0.5'	2.5'	0.5'	2.5'
Method ID:		USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A
ANALYTE	Units							
Alpha-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	ug/kg	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ug/kg	ND	ND	ND	ND	ND	ND	ND
Aldrin	ug/kg	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ug/kg	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ug/kg	4.1	ND	4.0 J	36.0	ND	72.0	ND
Dieldrin	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endrin	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ug/kg	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ug/kg	ND	ND	ND	24.5	ND	52.5	ND
Endrin Aldehyde	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	ug/kg	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	ug/kg	ND	ND	ND	ND	ND	ND	ND
Alpha-Chlordane	ug/kg	ND	ND	ND	6.8	ND	8.6	ND
Gamma-Chlordane	ug/kg	ND	ND	ND	4.4 J	ND	7.5	ND
Total Chlordane	ug/kg	ND	ND	ND	25.8	ND	38.5	ND
Toxaphene	ug/kg	ND	ND	ND	ND	ND	ND	ND
Endrin Ketone	ug/kg	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene (HCB)	ug/kg	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ug/kg	ND	ND	ND	ND	ND	ND	ND

TABLE 7
SOIL ANALYTICAL RESULTS, ORGANOCHLORINE PESTICIDES
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Sample Location:		WH-7AA/8AA/9AA/10AA	WH-7AA/8AA/9AA/10AA	WH-7AA/8AA/9AA/10AA	WS-1/2/3/4	WS-5/6/7/8
Sample Type:		Composite	Composite	Composite	Composite	Composite
Sample ID:		AA-0.5'	AA-0.5' DUP	AA-2.5'	WS-1/2/3/4-0.5'	WS-5/6/7/8-0.5'
Sample Date:		4/19/2016	4/19/2016	4/19/2016	4/13/2016	4/13/2016
Sample Depth:		0.5'	0.5'	2.5'	0.5'	0.5'
Method ID:		USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A	USEPA 8081A
ANALYTE	Units					
Alpha-BHC	ug/kg	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	ug/kg	ND	ND	ND	ND	ND
Heptachlor	ug/kg	ND	ND	ND	ND	ND
Aldrin	ug/kg	ND	ND	ND	ND	ND
Beta-BHC	ug/kg	ND	ND	ND	ND	ND
Delta-BHC	ug/kg	ND	ND	ND	ND	ND
Heptachlor Epoxide	ug/kg	ND	ND	ND	ND	ND
Endosulfan I	ug/kg	ND	ND	ND	ND	ND
4,4'-DDE	ug/kg	57.8	70.5	ND	19.4	ND
Dieldrin	ug/kg	ND	ND	ND	ND	ND
Endrin	ug/kg	ND	ND	ND	ND	ND
4,4'-DDD	ug/kg	ND	ND	ND	ND	ND
Endosulfan II	ug/kg	ND	ND	ND	ND	ND
4,4'-DDT	ug/kg	23.5	27.7	ND	4.1 J	ND
Endrin Aldehyde	ug/kg	ND	ND	ND	ND	ND
Endosulfan Sulfate	ug/kg	ND	ND	ND	ND	ND
Methoxychlor	ug/kg	ND	ND	ND	ND	ND
Alpha-Chlordane	ug/kg	4.7 J	3.1 J	ND	ND	ND
Gamma-Chlordane	ug/kg	4.0 J	ND	ND	ND	ND
Total Chlordane	ug/kg	20.9 J	12.9 J	ND	ND	ND
Toxaphene	ug/kg	ND	ND	ND	ND	ND
Endrin Ketone	ug/kg	ND	ND	ND	ND	ND
Hexachlorobenzene (HCB)	ug/kg	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ug/kg	ND	ND	ND	ND	ND

TABLE 8
SOIL ANALYTICAL RESULTS, OTHER ORGANIC COMPOUNDS
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Sample Location:	B-1	B-1	B-2	B-3	B-4	NS-1	NS-1
Sample Type:	Discrete	Discrete	Discrete	Discrete	Discrete	Composite	Composite
Sample ID:	B-1-0.5'	B-1-0.5' DUP	B-2-0.5'	B-3-0.5'	B-4-0.5'	NS-1-0.5'/2.5'	NS-1-0.5'/2.5' DUP
Sample Date:	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016
Sample Depth:	0.5'	0.5'	0.5'	0.5'	0.5'	0.5'/2.5'	0.5'/2.5'
Method ID:	USEPA 8082	USEPA 8082	USEPA 8082	USEPA 8082	USEPA 8082	USEPA 8082	USEPA 8082
ANALYTE	Units						
TPHg (C4-C12)	mg/kg						
TPHd (C13-C23)	mg/kg						
TPHo (C24-C40)	mg/kg						
All PCBs	ug/kg	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/kg						
Total Xylenes	ug/kg						
All Other VOCs	ug/kg						
All Semi-VOCs	mg/kg						

NOTES:

- Detected concentrations are printed in boldface type.
- A blank cell indicates that the sample was not analyzed for that analyte.
- See laboratory reports in report appendix for full analyte lists.
- USEPA = U.S. Environmental Protection Agency
- DUP = laboratory duplicate
- J = estimated value between the method detection limit and the practical quantitation limit
- mg/kg = milligrams per kilogram
- ug/kg = micrograms per kilogram
- ND = not detected at or above the laboratory practical quantitation limit
- PCBs = polychlorinated biphenyls
- TPHg = total petroleum hydrocarbons as gasoline (C₇-C₁₂)
- TPHd = total petroleum hydrocarbons as diesel (C₁₃-C₂₃)
- TPHo = total petroleum hydrocarbons as oil (C₂₄-C₄₀)
- VOCs = volatile organic compounds

TABLE 8
SOIL ANALYTICAL RESULTS, OTHER ORGANIC COMPOUNDS
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Sample Location:		NS-2	NS-3	NS-4	SP-1	SP-1	SP-1
Sample Type:		Composite	Composite	Composite	Discrete	Discrete	Discrete
Sample ID:		NS-2-0.5'/2.5'	NS-3-0.5'/2.5'	NS-4-0.5'/2.5'	SP-1-7.0'	SP-1-7.0' DUP	SP-1-10.0'
Sample Date:		4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016
Sample Depth:		0.5'/2.5'	0.5'/2.5'	0.5'/2.5'	7.0'	7.0'	10.0'
Method ID:		USEPA 8082	USEPA 8082	USEPA 8082	USEPA 8015M/8260B/8270C	USEPA 8015M/8260B/8270C	USEPA 8015M/8260B/8270C
ANALYTE	Units						
TPHg (C4-C12)	mg/kg				ND	ND	ND
TPHd (C13-C23)	mg/kg				ND	ND	ND
TPHo (C24-C40)	mg/kg				ND	ND	ND
All PCBs	ug/kg	ND	ND	ND			
Ethylbenzene	ug/kg				ND	ND	3.1
Total Xylenes	ug/kg				ND	ND	32.2
All Other VOCs	ug/kg				ND	ND	ND
All Semi-VOCs	mg/kg				ND	ND	ND

TABLE 8
SOIL ANALYTICAL RESULTS, OTHER ORGANIC COMPOUNDS
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Sample Location:		SP-2	SP-2	SP-3	SP-3	WH-11
Sample Type:		Discrete	Discrete	Discrete	Discrete	Discrete
Sample ID:		SP-2-7.0'	SP-2-10.0'	SP-3-7.0'	SP-3-10.0'	WH-11-0.5'
Sample Date:		4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/19/2016
Sample Depth:		7.0'	10.0'	7.0'	10.0'	0.5'
Method ID:		USEPA 8015M/8260B/8270C	USEPA 8015M/8260B/8270C	USEPA 8015M/8260B/8270C	USEPA 8015M/8260B/8270C	USEPA 8082
ANALYTE	Units					
TPHg (C4-C12)	mg/kg	ND	ND	ND	ND	
TPHd (C13-C23)	mg/kg	ND	ND	ND	ND	
TPHo (C24-C40)	mg/kg	ND	ND	ND	ND	
All PCBs	ug/kg					ND
Ethylbenzene	ug/kg	ND	ND	ND	ND	
Total Xylenes	ug/kg	ND	ND	ND	ND	
All Other VOCs	ug/kg	ND	ND	ND	ND	
All Semi-VOCs	mg/kg	ND	ND	ND	ND	

TABLE 9
SOIL ANALYTICAL RESULTS, ISM SAMPLES
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Sample Locations:		A-1 to A-34	B-1 to B-34	C-1 to C-34	D-1 to D-35	E-1 to E-35	F-1 to F-35
Sample Type:		ISM	ISM	ISM	ISM	ISM	ISM
Sample ID:		Replicate A	Replicate B	Replicate C	Replicate D	Replicate E	Replicate F
Sample Date:		4/12/2016	4/12/2016	4/12/2016	4/11/2016	4/11/2016	4/11/2016
Sample Depth:		0.5'	0.5'	0.5'	0.5'	0.5'	0.5'
Method ID:		USEPA 6010B/8081A	USEPA 6010B/8081A	USEPA 6010B/8081A	USEPA 6010B/8081A	USEPA 6010B/8081A	USEPA 6010B/8081A
ANALYTE	Units						
Arsenic	mg/kg	2.2	1.5	1.5	3.1	3.1	2.7
Lead	mg/kg	20.9	22.2	23.3	6.2	6.2	6.1
4,4'-DDE	mg/kg	0.26	0.57	0.12	0.10	0.090	0.10
4,4'-DDT	mg/kg	0.26	0.46	0.13	0.012	0.013	0.015
4,4'-TDE/DDD	mg/kg	0.0070	0.0096	ND	ND	ND	ND
A-Chlordane	mg/kg	0.012	0.016	0.14	0.046	0.035	0.029
Chlordane, Technical	mg/kg	0.086 J	0.11	1.1	0.31	0.23	0.20
G-Chlordane	mg/kg	0.050 Y	0.12 Y	0.18	0.048	0.035	0.030
All Other OCPs	mg/kg	ND	ND	ND	ND	ND	ND

NOTES:

Detected concentrations are printed in boldface type.

Yellow highlighted cells indicate technical (total) chlordane concentrations greater than the DTSC residential soil screening level of 0.43 mg/kg.

ISM = incremental sampling methodology

OCP = organochlorine pesticide

USEPA = U.S. Environmental Protection Agency

J = analyte concentration is an estimated value between the method detection limit and the practical quantitation limit

mg/kg = milligrams per kilogram

ND = not detected at or above the laboratory practical quantitation limit

Y = relative percent difference between primary and confirmation columns was greater than 40-percent

TABLE 10
 SOIL GAS ANALYTICAL RESULTS, VOLATILE ORGANIC COMPOUNDS
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Sample Location:		SG-1	SG-1	SG-1	SG-2	SG-2
Sample ID:		SG-1-5'	SG-1-5'-DUP	SG-1-10'	SG-2-5'	SG-2-10'
Sample Date:		4/19/2016	4/19/2016	4/19/2016	4/20/2016	4/20/2016
Sample Depth:		5'	5'	10'	5'	10'
Method ID:		USEPA TO-15	USEPA TO-15	USEPA TO-15	USEPA TO-15	USEPA TO-15
ANALYTE	Units					
Carbon Disulfide	ug/m ³	ND	ND	ND	ND	15
Ethyl Benzene	ug/m ³	16	15	140	ND	ND
m,p-Xylene	ug/m ³	58	58	1,000	ND	ND
o-Xylene	ug/m ³	120	120	3,300	ND	ND
4-Ethyltoluene	ug/m ³	ND	ND	33	ND	ND
1,2,4-Trimethylbenzene	ug/m ³	ND	ND	18	ND	ND
TPH ref. to Gasoline (MW=100)	ug/m ³	1,300	1,100	17,000	ND	ND
Naphthalene	ug/m ³	25	26	ND	ND	ND
All Other VOCs	ug/m ³	ND	ND	ND	ND	ND

NOTES:

- Detected concentrations are printed in boldface type.
- UJ = Non-detected compound associated with low bias in the CCV and/or LCS
- # = analyte was not detected at or above the laboratory reporting limit (#)
- DUP = field duplicate
- VOC = volatile organic compound
- ND = not detected at or above the laboratory practical quantitation limit

TABLE 11
WATER ANALYTICAL RESULTS, TITLE 22 METALS
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Sample Type:		Equipment Rinsate Blank	Equipment Rinsate Blank	Equipment Rinsate Blank	Equipment Rinsate Blank
Sample ID:		MW-1	MW-2	MW-3	MW-4
Sample Date:		4/12/2016	4/12/2016	4/18/2016	4/19/2016
Sample Depth:		n/a	n/a	n/a	n/a
Method ID:		USEPA 6010B/7470A	USEPA 6010B/7470A	USEPA 6010B	USEPA 6010B
ANALYTE	Units				
Antimony	mg/L	ND	ND		
Arsenic	mg/L	ND	ND	ND	
Barium	mg/L	0.020	0.019		
Beryllium	mg/L	ND	ND		
Cadmium	mg/L	ND	ND		
Chromium	mg/L	ND	ND		
Cobalt	mg/L	ND	ND		
Copper	mg/L	0.018	0.025		
Lead	mg/L	ND	ND	ND	ND
Mercury	mg/L	ND	ND		
Molybdenum	mg/L	ND	ND		
Nickel	mg/L	ND	ND		
Selenium	mg/L	ND	ND		
Silver	mg/L	ND	ND		
Thallium	mg/L	ND	ND		
Vanadium	mg/L	ND	ND		
Zinc	mg/L	0.026	0.023		

NOTES:

Detected concentrations are printed in boldface type.

A blank cell indicates that the sample was not analyzed for that analyte.

USEPA = U.S. Environmental Protection Agency

mg/L = milligrams per liter

ND = not detected at or above the laboratory practical quantitation limit

TABLE 12
WATER ANALYTICAL RESULTS, ORGANIC COMPOUNDS
Planned School Site
E. Church and S. Peach Avenues
Fresno, Fresno County, CA
Page 1 of 1

Sample Type:	Equipment Rinsate Blank	Equipment Rinsate Blank	Equipment Rinsate Blank	Equipment Rinsate Blank
Sample ID:	MW-1	MW-2	MW-3	MW-4
Sample Date:	4/12/2016	4/13/2016	4/18/2016	4/19/2016
Sample Depth:	n/a	n/a	n/a	n/a
Method ID:	USEPA 8015M/8081A/8260B	USEPA 8015M/8082/8081A/8260B/8270C	USEPA 8081A	USEPA 8081A/8082
ANALYTE	Units			
TPHg (C4-C12)	ug/L	ND	ND	
TPHd (C13-C23)	ug/L	ND	ND	
TPHo (C24-C40)	ug/L	ND	ND	
All PCBs	ug/L		ND	ND
All OCPs	ug/L	ND	ND	ND
All VOCs	ug/L	ND	ND	
All Semi-VOCs	ug/L		ND	

NOTES:

Detected concentrations are printed in boldface type.

A blank cell indicates that the sample was not analyzed for that analyte.

USEPA = U.S. Environmental Protection Agency

ug/L = micrograms per liter

ND = not detected at or above the laboratory practical quantitation limit

OCPs = organochlorine pesticides

PCBs = polychlorinated biphenyls

TPHg = total petroleum hydrocarbons as gasoline (C₄-C₁₂)

TPHd = total petroleum hydrocarbons as diesel (C₁₃-C₂₃)

TPHo = total petroleum hydrocarbons as oil (C₂₄-C₄₀)

VOCs = volatile organic compounds

TABLE 13
SUMMARY OF CHEMICALS DETECTED IN SOIL
Planned School Site
E. Church and S. Peach Avenues
Fresno, Fresno County, CA
Page 1 of 1

Chemical Detected On-Site	Number of Samples Analyzed	Number of Detections	Site Maximum Detected Concentration (mg/kg)	Calculated 95%-UCL Concentration (mg/kg)	Range of Regional Background Concentrations* (mg/kg)	Included as COPC?	Rationale for Not Including as COPC
<i>Naturally Occurring Metals</i>							
Arsenic	73	62	18.4	2.93	1.8 - 6.0	No	The 95%-UCL concentration is within the range of regional background concentrations in soil.
Barium	9	9	67.3	---	522 - 1,400	No	The maximum concentration is within the range of regional background concentrations in soil.
Chromium	9	9	41.9	---	86 - 147	No	The maximum concentration is within the range of regional background concentrations in soil.
Cobalt	9	9	13.4	---	10.1 - 17.8	No	The maximum concentration is within the range of regional background concentrations in soil.
Copper	9	9	13.5	---	17.7 - 37.6	No	The maximum concentration is within the range of regional background concentrations in soil.
Lead	65	60	113	23.3	19.7 - 24.5	No	The 95%-UCL concentration is within the range of regional background concentrations in soil.
Nickel	9	9	111	---	53 - 113	No	The maximum concentration is within the range of regional background concentrations in soil.
Vanadium	9	9	54.2	---	92 - 138	No	The maximum concentration is within the range of regional background concentrations in soil.
Zinc	9	9	24.9	---	107 - 165	No	The maximum concentration is within the range of regional background concentrations in soil.
<i>Volatile Organic Compounds</i>							
Ethylbenzene	7	1	0.0031	---		Yes	
Total Xylenes	7	1	0.0322	---		Yes	
<i>Organochlorine Pesticides</i>							
Alpha-Chlordane	86	20	0.313	---		No	The COPC total chlordane includes alpha-chlordane.
Gamma-Chlordane	86	21	0.265	---		No	The COPC total chlordane includes gamma-chlordane.
Total Chlordane	86	22	1.67	0.653		Yes	
4,4'-DDE	86	57	0.169	---		Yes	
4,4'-DDT	86	36	0.215	---		Yes	
Dieldrin	86	8	0.0137	---		Yes	
Heptachlor	86	2	0.0036	---		Yes	
Heptachlor Epoxide	86	5	0.0108	---		Yes	

NOTES:

* Based on analytical results for four Fresno County soil samples reported in Kearney Foundation, 1996.

The number of samples and number of detections include duplicates.

Organochlorine pesticide and volatile organic compound concentrations were converted from micrograms per kilogram to milligrams per kilogram by dividing by 1,000.

COPC = chemical of potential concern

J = estimated concentration between the method detection limit and the practical quantitation limit

mg/kg = milligrams per kilogram

TABLE 14
 SUMMARY OF CHEMICALS DETECTED IN SOIL GAS
 Planned School Site
 E. Church and S. Peach Avenues
 Fresno, Fresno County, CA
 Page 1 of 1

Chemical Detected On-Site	Number of Samples Analyzed	Number of Detections	Site Maximum Detected Concentration (ug/m ³)	Included as COPC?	Rationale for Not Including as COPC
<i>Volatile Organic Compounds</i>					
Carbon Disulfide	5	1	15	Yes	
Ethyl Benzene	5	3	140	Yes	
4-Ethyltoluene	5	1	33	Yes	
Naphthalene	5	2	26	Yes	
TPH-gasoline	5	3	17,000	Yes	
1,2,4-Trimethylbenzene	5	1	18	Yes	
m,p-Xylene	5	3	1,000	Yes	
o-Xylene	5	3	3,300	Yes	

NOTES:

The number of samples and number of detections include duplicates.

Organochlorine pesticide were converted from micrograms per kilogram to milligrams per kilogram by dividing by 1,000.

COPC = chemical of potential concern

J = estimated concentration between the method detection limit and the practical quantitation limit

ug/m³ = micrograms per cubic meter

TPH = total petroleum hydrocarbons

**TABLE 15
HUMAN HEALTH SCREENING EVALUATION CALCULATIONS
Planned School Site
E. Church and S. Peach Avenues
Fresno, Fresno County, CA
Page 1 of 1**

COPC	Units	Maximum Concentration Detected in On-Site Samples	Assumed Indoor-Air Attenuation Factor	Exposure-Point Concentration (EPC)	Cancer				Noncancer		
					Residential Screening Level	Source	Ratio of EPC to Screening Level	Calculated Excess Cancer Risk	Residential Screening Level	Source	Ratio of EPC to Screening Level
<i>COPCs Detected in Soil Samples</i>											
Chlordane, Total	mg/kg	1.67	n/a	1.67	0.43	DTSC-SL	3.9E+00	3.9E-06	34	RSL	4.9E-02
4,4'-DDE	mg/kg	0.169	n/a	0.169	2.0	RSL	8.5E-02	8.5E-08	37	Surrogate	4.6E-03
4,4'-DDT	mg/kg	0.215	n/a	0.215	1.9	RSL	1.1E-01	1.1E-07	37	RSL	5.8E-03
Dieldrin	mg/kg	0.0137	n/a	0.0137	0.034	RSL	4.0E-01	4.0E-07	3.2	RSL	4.3E-03
Ethylbenzene	mg/kg	0.0031	n/a	0.0031	5.8	RSL	5.3E-04	5.3E-10	3,400	RSL	9.1E-07
Heptachlor	mg/kg	0.0036	n/a	0.0036	0.13	RSL	2.8E-02	2.8E-08	39	RSL	9.2E-05
Heptachlor Epoxide	mg/kg	0.0108	n/a	0.0108	0.070	RSL	1.5E-01	1.5E-07	1.0	RSL	1.1E-02
Xylenes, Total	mg/kg	0.0322	n/a	0.0322	NC	RSL	---	---	550	RSL	5.9E-05
<i>COPCs Detected in Soil-Gas Samples</i>											
Carbon Disulfide	ug/m ³	15	0.001	0.015	NC	RSL	---	---	730	RSL	2.1E-05
Ethyl Benzene	ug/m ³	140	0.001	0.14	1.1	RSL	1.3E-01	1.3E-07	1,000	RSL	1.4E-04
4-Ethyltoluene	ug/m ³	33	0.001	0.033	n/a	---	---	---	n/a	---	---
Naphthalene	ug/m ³	26	0.001	0.026	0.083	RSL	3.1E-01	3.1E-07	3.1	RSL	8.4E-03
TPH-gasoline	ug/m ³	17,000	0.001	17	n/a	---	---	---	31	RSL	5.5E-01
1,2,4-Trimethylbenzene	ug/m ³	18	0.001	0.018	NC	RSL	---	---	7.3	RSL	2.5E-03
m,p-Xylene	ug/m ³	1,000	0.001	1.0	NC	RSL	---	---	100	RSL	1.0E-02
o-Xylene	ug/m ³	3,300	0.001	3.3	NC	RSL	---	---	100	RSL	3.3E-02
Cumulative Calculated Excess Cancer Risk =								5.1E-06	Calculated Hazard Index =		6.8E-01

NOTES:

Lead detected in soil samples was evaluated separately.

The EPC was assumed to be the maximum detected concentration in soil samples collected at the site.

No noncancer RSL is established for 4,4'-DDE, so the RSL for 4,4'-DDT was used as a surrogate value.

No noncancer RSL is established for endosulfan sulfate, so the RSL for endosulfan was used as a surrogate value.

CHHSL = California Human Health Screening Level for residential soil

COPC = chemical of potential concern

DTSC-SL = California Department of Toxic Substances Control (DTSC) Screening Level (SL) from Human Health Risk Assessment Note No. 3 (January 2016) published by Human and Ecological Risk Office (HERO)

EPC = exposure-point concentration

ESL = environmental screening level for residential land use established by the San Francisco Bay Regional Water Quality Control Board

mg/kg = milligrams per kilogram

n/a = not applicable or not available

NC = non-carcinogenic

RSL = regional screening level for resident soil established by U.S. Environmental Protection Agency (November 2015)

TPH = total petroleum hydrocarbons



Site Location Map

Planned School Site
E. Church Ave. & S. Peach Ave.
Fresno, CA 93725



Figure 1



Aerial Photo Data: March, 2015



Aerial Photo Data: March, 2015

Cropland Soil Sample Locations
Planned School Site
E. Church Ave. & S. Peach Ave.
Fresno, CA 93725



Figure 3



Aerial Photo Data: March, 2015

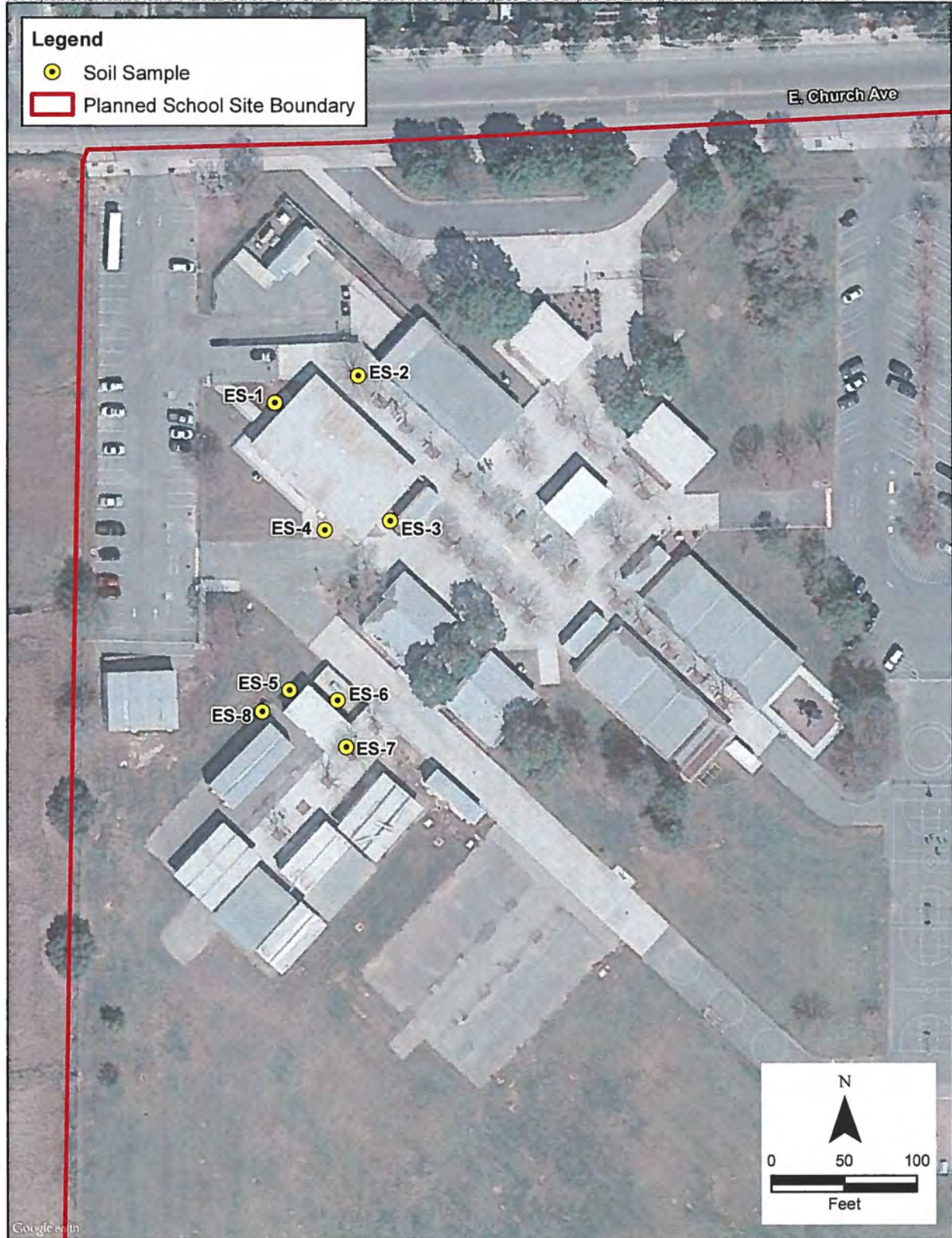
Canal and Ditch Soil Sample Locations
Planned School Site
E. Church Ave. & S. Peach Ave.
Fresno, CA 93725



Aerial Photo Data: March, 2015

Soil Samples Near Current/Former Houses, West of Canal

Planned School Site
E. Church Ave. & S. Peach Ave.
Fresno, CA 93725



Aerial Photo Data: March, 2015

Soil Samples at Existing School

Planned School Site
E. Church Ave. & S. Peach Ave.
Fresno, CA 93725



Figure 6



Aerial Photo Data: March, 2015

Soil Samples Near Irrigation Well at Existing School

Planned School Site
E. Church Ave. & S. Peach Ave.
Fresno, CA 93725



Figure 7

- Legend**
- ISM Sample Replicate A Location
 - ISM Sample Replicate B Location
 - ISM Sample Replicate C Location
 - ISM Sample Replicate D Location
 - ISM Sample Replicate E Location
 - ISM Sample Replicate F Location
 - ▭ Former House Area No. 1
 - ▭ Former House Area No. 2
 - ▭ Planned School Site Boundary



Aerial Photo Data: March, 2015

ISM Soil Samples Near Former Structures, East of Canal

Planned School Site
E. Church Ave. & S. Peach Ave.
Fresno, CA 93725



Figure 8



Aerial Photo Data: March, 2015

Soil Samples Near Former House on Parcel 481-090-027
Planned School Site
E. Church Ave. & S. Peach Ave.
Fresno, CA 93725



Aerial Photo Data: March, 2015

Soil Samples At Soil Stockpile, Southwest Corner of Parcel 481-090-028

Planned School Site
E. Church Ave. & S. Peach Ave.
Fresno, CA 93725



Aerial Photo Data: March, 2015

Active Soil Gas Samples and Soil Samples Near Former Barn and Shop, East of Canal



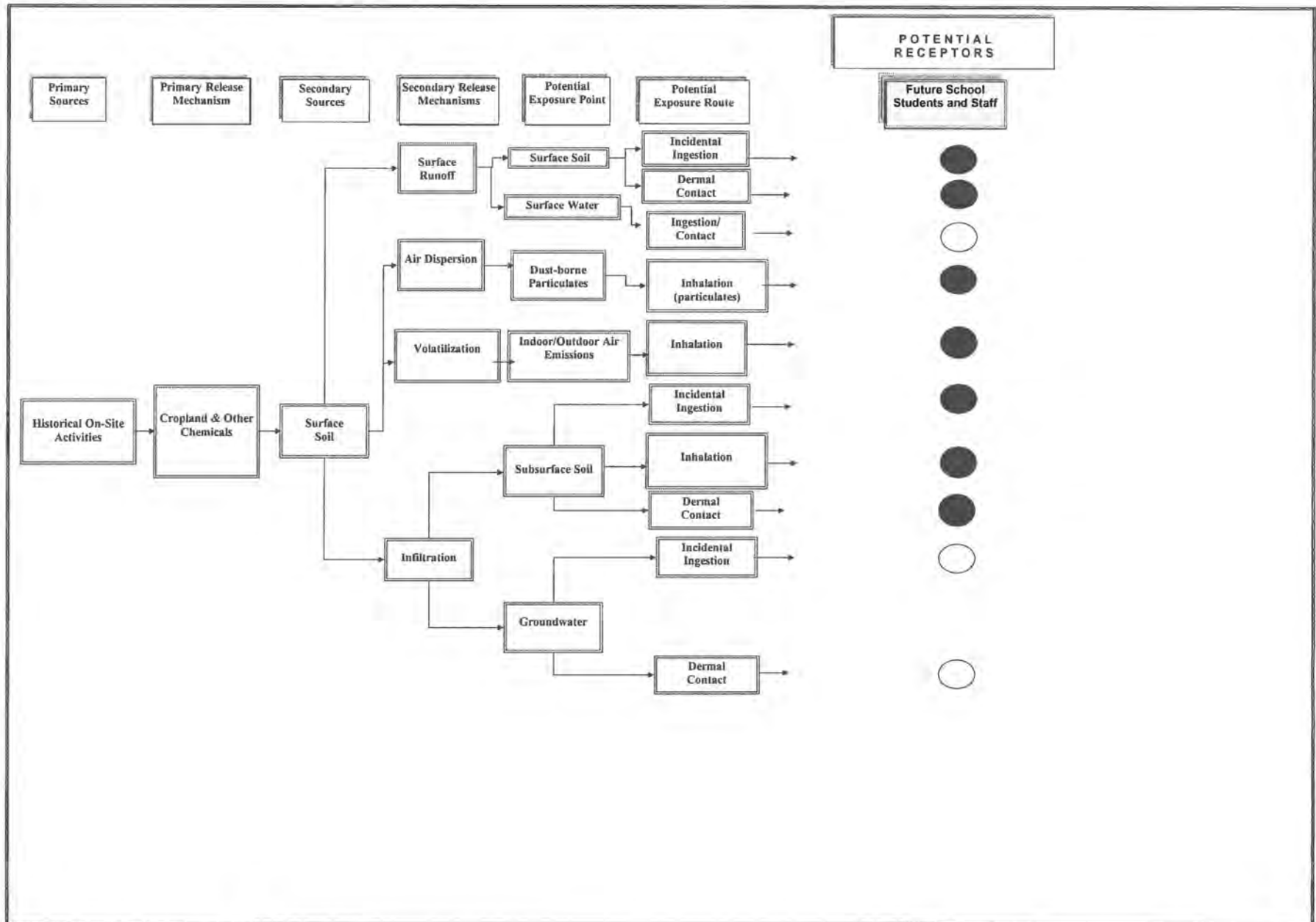
Aerial Photo Data: March, 2015

Soil Samples Near Current House on Parcel 481-090-016

Planned School Site
E. Church Ave. & S. Peach Ave.
Fresno, CA 93725



Figure 12



- Potentially complete exposure pathway
- Incomplete exposure pathway

Conceptual Site Model
 Planned Southeast School Site
 Fresno, Fresno County, CA

Figure 13

APPENDIX A

Assessor's Map

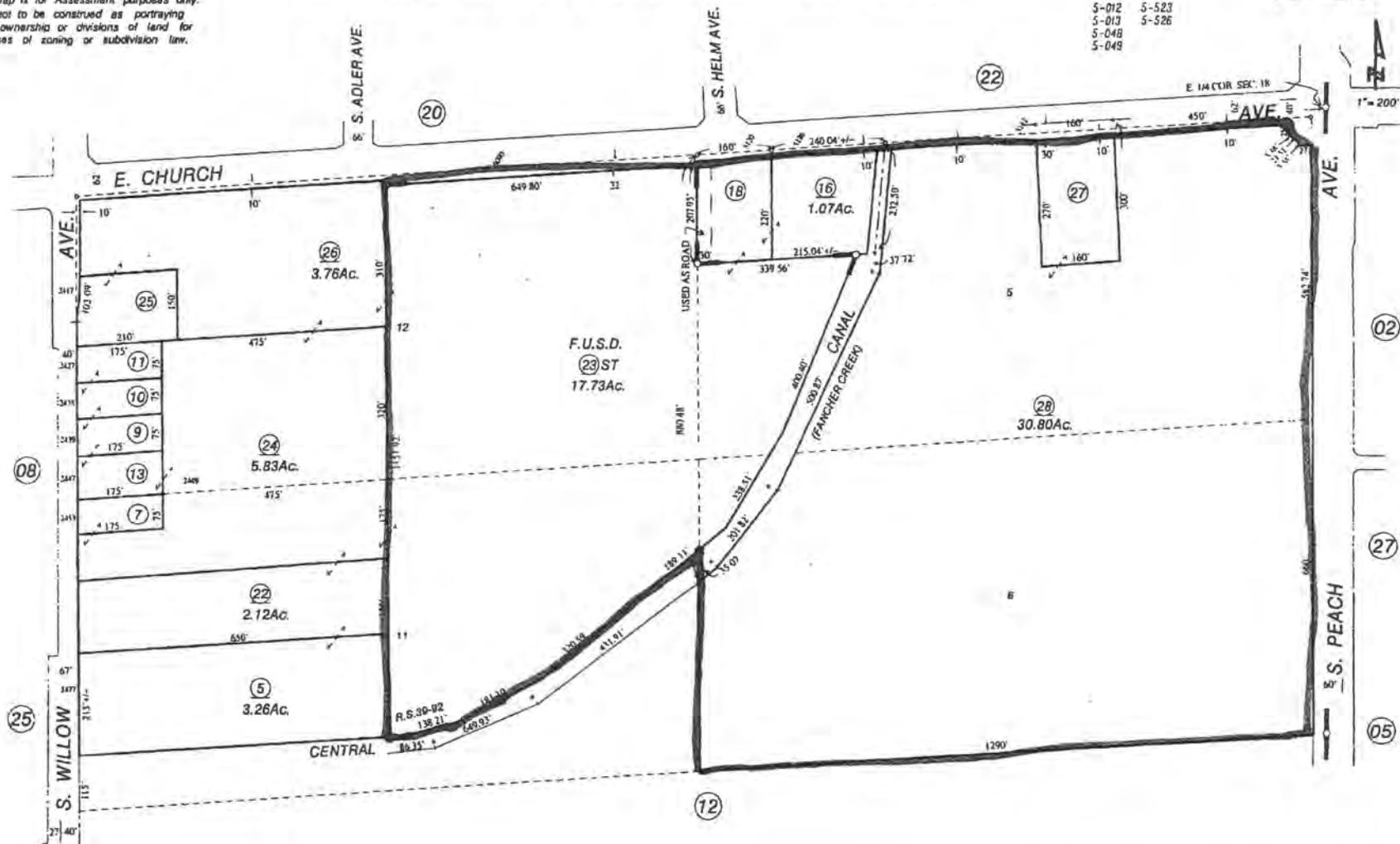
SUBDIVIDED LAND IN POR. SEC. 18, T.14S., R.21E., M.D.B.&M.

Tax Rate Area

481-09

5-012 5-523
 5-013 5-526
 5-048
 5-049

--- NOTE ---
 This map is for Assessment purposes only.
 It is not to be construed as portraying
 legal ownership or divisions of land for
 purposes of zoning or subdivision law.



Newhall Tract - R.S. Bk. 2, Pg. 42
 Record of Survey - Bk. 39, Pg. 92

Assessor's Map Bk. 481 - Pg. 09
 County of Fresno, Calif.

NOTE - Assessor's Block Numbers Shown in Ellipses.
 Assessor's Parcel Numbers Shown in Circles.

JUN 17 2013

APPENDIX B

Geophysical Survey Report



April 19, 2016

Project/Invoice No. 16-151

AECOM

1360 East Spruce Avenue, Suite 101
Fresno, California 93720

Attn: Stuart St. Clair

Re: Geophysical Investigation Report, SW Corner of E Church Ave & S Peach Ave, Fresno, California.

This report is to present the results of our geophysical survey carried out over portions of a former agricultural field located southwest of the intersection of East Church Avenue and South Peach Avenue in Fresno, California (Figure 1). The survey was performed on April 11, 2016, and its primary purpose was to detect and delineate, insofar as possible, a possible underground fuel storage tank (UST) reportedly on site. A secondary purpose of the survey was to detect and delineate, insofar as possible, all other utilities, junk pipes, buried debris, and anomalous subsurface structures within the same survey area.

A combination of total-field magnetometry and electromagnetic induction (EM) were applied to the search. Ground penetrating radar (GPR) was also utilized as well.



FIGURE 1. Site location map.

Survey Design and Instrumentation – The survey area boundaries were indicated by the client and are further defined with the Universal Transverse Mercator (UTM) coordinates provided below:

- Southwest Corner - 256944.8 meters East, 4066555.0 meters North, Zone 11
- Northwest Corner - 256945.0 meters East, 4066610.8 meters North, Zone 11
- Northeast Corner - 257000.8 meters East, 4066610.2 meters North, Zone 11
- Southeast Corner - 257000.4 meters East, 4066554.8 meters North, Zone 11

This area was composed of an open agricultural field with loose, recently-disked soil and no aboveground obstacles or obstructions.

Within the designated survey area the initial reconnaissance surveying was performed with a total-field standard magnetometer with an integrated DGPS positioning system (Figure 2). Note that the instrument can take instantaneous readings and does not require its sensor to be stationary or preferentially oriented. The unit was configured to auto-record a magnetic reading every 0.5 seconds while simultaneously recording the sensor's position in UTM coordinates. The unit's operator then continuously and methodically walked all portions of the designated survey area so as to insure that a reading was taken at a maximum of 5 feet in any direction. Gridded spatial coverage did however average less than 4 feet in all areas.



FIGURE 2. Total-field magnetometer

Note that the magnetometer survey was performed within 51 minutes from start to end. Therefore, a base station was not established and the data was not corrected for diurnal drift since this type drift over such a short time span would likely be approximately 10 nanoTeslas (nT) or less. Since the anomalous response from a significant metallic object such as a UST can be up to 5000 nT or more, diurnal drift correction is therefore unnecessary for this type survey.

Once metallic anomalies were initially detected with the magnetometer, follow-up detailing for confirmation and precise locating was performed by free-traversing with two different EM devices and the GPR instrument. While in use, these instruments were systematically traversed over the initially-detected candidate anomalies over numerous organized directions and along closely-spaced intervals. Note that while free-traversing, the instruments were simply monitored manually, continuously, and in real-time (without saving data) so as to immediately determine which responses were significant and due to true subsurface targets, and which were due to other non-target or above-ground features and must be ignored (an example being an abandoned water well within the survey area). In these situations, the free-traversing method for follow-up confirmation is highly advantageous in that it allows for immediate re-detection of anomalous objects and facilitates the opportunity to investigate them further and without the need to first

download data.

Gridded magnetic surveying was conducted with a cesium vapor Overhauser-type GEM Systems GSM-19W with its own internal GPS receiver with WAAS-provided differential corrections (Figure 2). EM surveying was performed with a Geonics EM61 and a Fisher TW-6 M-Scope. A Sensors & Software Noggin Ground Penetrating Radar unit with a 500 MHz antenna produced the radar images.

All magnetic readings are in nanoTeslas (nT). The reported GPS positions are in UTM meters, Zone 11 and are estimated to be accurate to ± 2 feet.

Brief Description of the Geophysical Methods Applied – Standard magnetic surveying employs a small, portable magnetometer to measure the Earth's natural magnetic field, and can detect distortions or deviations from typical background as minute as 0.1 nT. Buried ferrous non-native objects can cause extreme distortions in the Earth's magnetic field immediately around the object, and the location of these distortions generally correspond to the location of the anomalous object itself. Such distortions for anomalous metals are easily detectable with magnetometers and can differ from normal background by up to 5000 nT depending on target size and depth. For a UST-sized target, detection depths can be as great as 20 feet below ground surface (BGS).

The EM61 instrument is a high resolution, time-domain, electromagnetic device for detecting buried conductive objects. It consists of a powerful transmitter that generates a pulsed primary magnetic field when its coils are energized, which induces eddy currents in nearby conductive objects. The decay of the eddy currents, following the input pulse, is measured by the same coils, which secondarily function as receiver coils. The decay rate is measured for the two coils, mounted concentrically, one above the other, and by making the measurements at a relatively long time interval (measured in microseconds) after termination of the primary pulse the response is nearly independent of the electrical conductivity of the ground. Thus, the instrument is a super-sensitive metal detector. Due to its unique coil arrangement, the response curve is a single well-defined positive peak directly over a buried conductive object. This facilitates quick and accurate location of targets to depths of up to 10 feet BGS for UST-sized targets.

The TW-6 M-Scope device energizes the ground by producing an alternating primary magnetic field with AC current in a transmitting coil. If conducting materials are within the area of influence of the primary field, AC eddy currents are induced to flow in the conductors. A receiving coil senses the secondary magnetic field produced by these eddy currents, and outputs the response as anomalous conditions. The strength of the secondary field is a function of the conductivity of the object; say a pipe, tank or cluster of drums, its size, and its depth and position relative to the instrument's two coils. Conductive objects, to a depth of approximately 7 feet BGS for the M-Scope are sensed. The device is also somewhat focused; that is, it is more sensitive to conductors below the instrument than they are to conductors off to the side.

The GPR instrument beams energy into the ground from its transducer/antenna, in the form of electromagnetic waves. A portion of this energy is reflected back to the antenna at a boundary in the subsurface across which there is an electrical contrast. The instrument produces a continuous record of the reflected energy as the antenna is traversed across the ground surface, and the greater the electrical contrast, the higher the amplitude of the returned energy. The radar wave travels at a velocity unique to the material properties of the ground being investigated, and when these velocities are known, the two-way travel times can be converted to depth. The depth of penetration and image resolution produced are a function of ground electrical conductivity and dielectric constant and can vary widely even within the same survey area.

Interpretation and Conclusions – The interpretation took place in real time as the survey progressed, and accordingly, all findings in their final confirmed locations were marked out on site with paint and flagging, and are further documented with a site interpretation map with embedded magnetic data (Figure 3), site photographs of critical findings (Figures 4-7), and a sample GPR images (Figure 8).

Detected items were painted out on site and are additionally highlighted in all accompanying graphics in coordinated colors including dark pink for singular junk metal objects, light pink for very small junk metal objects grouped together in a tight cluster, and magenta for a junk pipe. Additionally, orange was used to mark out the boundaries of an area exhibiting unusual soil disturbances. All items were additionally marked out with like-colored pin flags or feather chasers. Please review the site interpretation map and site photographs for the locations and orientations of all detected items.

A single junk metal object was detected within the survey area's northwest corner and in the location shown in Figures 4 and 5. The geophysical characteristics of this object is not suggestive of a UST but rather an item of more-innocuous metallic debris as it appears to be asymmetric with irregular boundaries and lying at odd angles. GPR imagery further suggests that the object may be approximately 2 feet in diameter and buried approximately 2 feet BGS.

This single junk metal object was also found to be buried within an area of soil disturbances approximately 12x 8 foot in size. A junk pipe detected in the immediate vicinity ran directly up to the boundary of the soil disturbance where it appeared to abruptly end. The precise location of its other end could not be determined as the junk pipe appeared to eventually corrode away into undetectable rust the further away it got from the soil disturbance. The positioning of the junk pipe and the single junk metal object in relation to the soil disturbance might suggest that something was buried here at one time, was subsequently removed by excavating, with demolition debris thrown back into the pit before backfilling. Never the less, we recommend that AECOM investigate this area further by digging or potholing in order to precisely determine what this object is and eliminate it as something of potential concern.

Aside from an abandoned water well, the only other metallic object detected with total-field magnetics was another single metallic object whose location is shown in Figure 2. This object was determined to be less than 6 inches in diameter, buried less than 1 foot BGS, and was therefore ignored.

Follow-up surveying with the EM devices detected an unusual cluster of metallic junk objects too small to be imaged with the magnetometer and in the location shown in Figures 6 and 7. These various items are likely less than 3 inches in diameter, are likely buried only 1-2 feet BGS, and are almost certainly random bits of harmless metal debris. However, the fact that they cluster together is suspicious, as we often find similar debris clustering within backfilled excavations that formally contained subsurface structures such as USTs. We assume that these objects are likely demolition debris and detritus that are simply thrown back into the pit before backfilling. Note, however, that GPR could not detect or image any soil disturbances indicative of digging or excavating in this area.

Observe in Figure 2 the location of the debris cluster in relation to the indicated area where the site's surface is unusually elevated or mounded. Also in the immediate vicinity are remnants of gravel loosely spread out on the ground surface in an elongate manner. The slight mounding may be the location of the reported former structure and the gravel remnants may indicate the location of a former access road. Therefore, the spatial position of the debris cluster in relation to the possible former surface features make the cluster additionally suspicious and possibly worthy of additional investigation.

No USTs were positively detected anywhere within the designated survey area although the two previously discussed anomalies shown in Figures 4-7 may be good candidates for the tank's former location. Aside from the single area of soil disturbance shown in Figures 4-5, no other backfilled excavation anomaly was detected as well.

Limitations and Further Recommendations - It should be understood that limitations inherent in geophysical instruments and/or surveying techniques exist at all sites, and nearly all sites exhibit conditions under which such might not perform optimally. Consequently, the detection of buried objects in all circumstances **cannot be guaranteed**. Such limitations are numerous and include, but are not limited to, rebar-reinforced ground cover, abrupt changes in ground cover type, above-ground obstacles preventing full traverses or traverses in one direction only, above-ground conductive objects interfering with instrument signal, nearby powerlines or EM transmitters, highly conductive background soil conditions, and shallower or larger objects shielding deeper or smaller targets from detection. If a geophysical instrument is rendered partially ineffective the quality of the survey can be somewhat degraded.

SubSurface Surveys may include maps in some reports. While they are an accurate general representation of the site and our findings, they are not of engineering quality (i.e., measured and mapped by a licensed land surveyor).

SubSurface Surveys and Associates makes no guarantee either expressed or implied regarding the accuracy of the findings and interpretations present. And, in no event will SubSurface Surveys and Associates be liable for any direct, indirect, special, incidental, or consequential damages resulting from interpretations and opinions presented herewith.













All data generated on this project are in confidential file in this office, and are available for review by authorized persons at any time. The opportunity to participate in this investigation is very much appreciated. Please call, if there are questions.

A handwritten signature in black ink, appearing to read "Travis Crosby". The signature is fluid and cursive, with a large initial "T" and "C".

Travis Crosby
California State Geophysics Registration GP1044
Senior Geophysicist, SubSurface Surveys



Google Earth Professional Business Licensed; Image ©2016 Google

	SITE: Southwest of the Intersection of: East Church Ave & South Peach Ave Fresno, California	TITLE: Site Interpretation Map with Mag Data	SURVEY DATE: April 11, 2016
		PREPARED FOR: AECOM	SSS PROJECT NO.: 16-151
LEGEND: <ul style="list-style-type: none">  Soil Disturbance  Cluster of Small Metal Objects  Single Junk Metal Object  Junk Pipe  Possible Location of Former Gravel Road  Possible Location of Reported Structures  Abandoned Water Well  Magnetometer Survey Grid Coordinates in UTM, Zone 11  Total-Field Magnetic Data Contour Range: 20,000-54,000 nT Contour Interval: 200 nT 			SCALE  0 56ft
			FIGURE 3

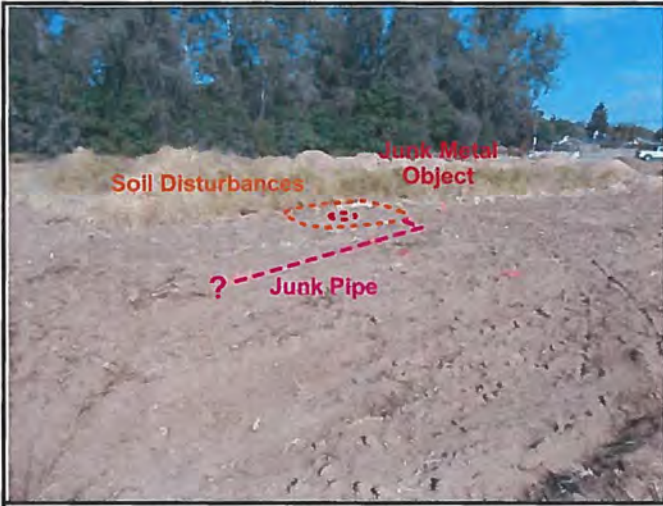


Figure 4



Figure 5



Figure 6



Figure 7

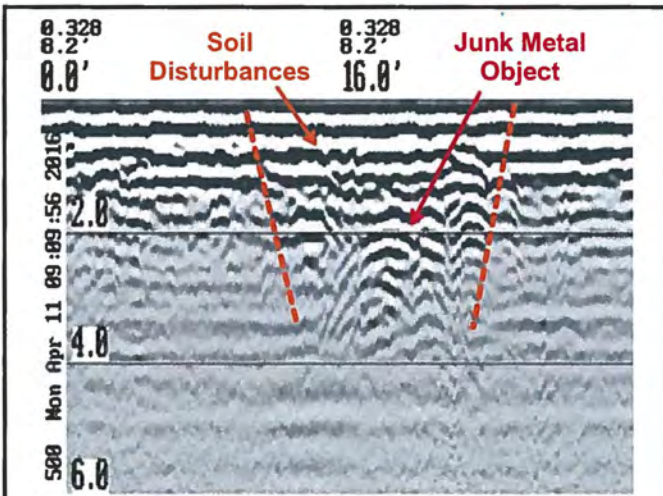
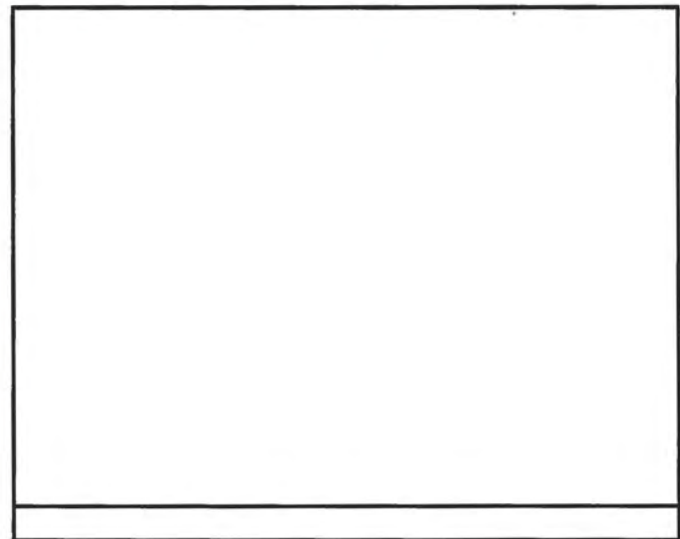


Figure 8



SITE:
 Southwest of the Intersection of:
 East Church Ave & South Peach Ave
 Fresno, California

TITLE:
 Anomaly Photos & Sample GPR Image
 PREPARED FOR:
 AECOM

SURVEY DATE:
 April 11, 2016
 SSS PROJECT NO:
 16-151

APPENDIX C

Boring Logs

Project: Church & Peach PEA
 Project Location: FRESNO
 Project Number: 60483930

Log of Boring SG-1

Sheet 1 of 1

Date(s) Drilled	4/12/16.	Logged By	Chad Neptune	Checked By	
Drilling Method	Direct push.	Drill Bit Size/Type	2.5"	Total Depth of Borehole	15'
Drill Rig Type	Geoprobe.	Drilling Contractor	Vironex.	Surface Elevation	
Groundwater Level(s)	N/A.	Sampler Type(s)	ContinuousCore	Hammer Data	
Location	SG-1	Borehole Completion			

Elevation, feet	Depth, feet	SAMPLES				Graphic Log	MATERIAL DESCRIPTION	FIELD NOTES
		Type	Number	Sampling Resistance, Blows / 6 in.	Recovery, %			
0					60%	SM.	Silty sand (SM), 70% fine to medium sand, 30% non plastic fines, moist, Reddish brown,	
5					50%	SM.	As Above except medium yellow brown.	
10					80%	SM.	As above	
15						ML.	Silt with Sand. (ML), 60% non-plastic fines, 40% fine to medium sand, Moist, light yellow brown.	
20							Bottom of boring @ 15' bgs	
25								
30								

Project: Church & Peach PEA
 Project Location: FRESNO
 Project Number: 60483930

Log of Boring SG-2

Sheet 1 of 1

Date(s) Drilled 4/12/16.	Logged By Chad Neptune	Checked By
Drilling Method Direct push.	Drill Bit Size/Type 2.5".	Total Depth of Borehole 15'
Drill Rig Type Geoprobe.	Drilling Contractor Vironex.	Surface Elevation
Groundwater Level(s) N/A.	Sampler Type(s) ContinuousCore	Hammer Data
Location SG-2	Borehole Completion	

Elevation, feet	Depth, feet	SAMPLES				Graphic Log	MATERIAL DESCRIPTION	FIELD NOTES
		Type	Number	Sampling Resistance, Blows / 6 in.	Recovery, %			
0					45%	SM.	Silty sand (SM), 70% fine to medium sand, 30% non plastic fines, moist, Reddish brown,	
5					70%	SM.	As Above except medium yellow brown.	
10					85%	SM.	As above	
15						ML.	Silt with Sand. (ML), 60% non-plastic fines, 40% fine to medium sand, Moist, light yellow brown.	
							Bottom of boring @ 15' bgs	
20								
25								
30								

APPENDIX D

Laboratory Reports



Alpha Scientific Corporation
Environmental Laboratories

04-21-2016

Mr. Stuart St. Clair
AECOM / URS Corporation
1360 E. Spruce Ave, Suite 101
Fresno, CA 93720

Project: 60483930
Project Site: Church and Peach PEA
Sample Date: 04-11/12-2016
Lab Job No.: UR604055

Dear Mr. St. Clair:

Enclosed please find the analytical report for the sample(s) received by Alpha Scientific Corporation on 04-13-2016 and analyzed for the following analytes:

EPA 6010B (Arsenic)
EPA 8081A (Organochlorine Pesticides)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

Alpha Scientific Corporation is a CA DHS certified laboratory (Certificate Number 2633). Thank you for giving us the opportunity to serve you. Please feel free to call me at (562) 809-8880 if our laboratory can be of further service to you.

Sincerely,

Roger Wang, Ph. D.
Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.



Alpha Scientific Corporation
Environmental Laboratories

Client: AECOM / URS Corporation
Project: 60483930
Project Site: Church and Peach PEA
Matrix: Soil
Extraction Method: EPA 3550B
Batch No.: 0414-MS1

Lab Job No.: UR604055
Date Sampled: 04-11/12-2016
Date Received: 04-13-2016
Date Extracted: 04-14-2016
Date Analyzed: 04-14-2016
Date Reported: 04-21-2016

EPA 6010B (As, TTLC)
Reporting Unit: mg/kg (ppm)

Sample ID	Lab ID	Arsenic (As)	Reporting Limit
MB		ND	0.5
S-331-0.5'	UR604055-1	ND	0.5
S-38J-0.5'	UR604055-6	0.94	0.5
S-43K-0.5'	UR604055-11	ND	0.5
S-48L-0.5'	UR604055-16	0.69	0.5
S-54N-0.5'	UR604055-18	0.98	0.5
S-69R-0.5'	UR604055-21	1.1	0.5
SS-1-0.5', SS-1-3.5'	UR604055-25,26	1.1	0.5
SS-2-0.5', SS-2-4.0', SS-2-7.0'	UR604055-27,28,29	1.0	0.5
SS-3-0.5', SS-3-3.5'	UR604055-30,31	0.65	0.5
SS-4-0.5', SS-4-3.5'	UR604055-32,33	1.2	0.5
SS-5-0.5', SS-5-4.0' SS-5-7.0'	UR604055-34,35,36	0.73	0.5
SS-6-0.5', SS-6-4.0' SS-6-7.0	UR604055-37,38,39	1.1	0.5
SS-7-0.5', SS-7-3.5'	UR604055-40,41	1.1	0.5
SS-7-0.5', SS-7-3.5'	UR604055-40,41 DUP	1.1	0.5
SS-8-0.5', SS-8-3.5'	UR604055-42,43	1.3	0.5
SS-9-0.5', SS-9-4.0 SS-9-7.0'	UR604055-44,45,46	1.1	0.5
SS-10-0.5', SS-10-3.5'	UR604055-47,48	0.95	0.5

ND: Not Detected (at the specified limit).



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: AD14-PS1

Lab Job No.: UR604055
 Date Sampled: 04-11/12-2016
 Date Received: 04-13-2016
 Date Extracted: 04-13-2016
 Date Analyzed: 04-14-2016
 Date Reported: 04-21-2016

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: $\mu\text{g}/\text{kg}$ (ppb)

LAB SAMPLE I.D.			MB	UR604055-1,2,3,4	UR604055-5,6,7,8	UR604055-9,10,11,12	UR604055-13,14,15,16	UR604055-17,18,19,20
CLIENT SAMPLE I.D.				S-33I-0.5' S-34I-0.5' S-35I-0.5' S-36I-0.5'	S-37J-0.5' S-38J-0.5' S-39J-0.5' S-40J-0.5'	S-41K-0.5' S-42K-0.5' S-43K-0.5' S-44K-0.5'	S-45L-0.5' S-46L-0.5' S-47L-0.5' S-48L-0.5'	S-53N-0.5' S-54N-0.5' S-55N-0.5' S-56N-0.5'
DILUTION FACTOR			1	1	1	1	1	1
COMPOUND	MDL	PQL						
Alpha-BHC	3	5	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	3	5	ND	ND	ND	ND	ND	ND
Heptachlor	3	5	ND	ND	ND	ND	ND	ND
Aldrin	3	5	ND	ND	ND	ND	ND	ND
Beta-BHC	3	5	ND	ND	ND	ND	ND	ND
Delta-BHC	3	5	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	3	5	ND	ND	ND	ND	ND	ND
Endosulfan I	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDE	3	5	ND	33.6	55.3	47.1	12.6	11.4
Dieldrin	3	5	ND	6.0	9.9	3.2	ND	4.3J
Endrin	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDD	3	5	ND	ND	ND	ND	ND	ND
Endosulfan II	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDT	3	5	ND	7.5	6.0	9.4	ND	ND
Endrin Aldehyde	3	5	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	3	5	ND	ND	ND	ND	ND	ND
Methoxychlor	3	5	ND	ND	ND	ND	ND	ND
Alpha-Chlordane	3	5	ND	ND	ND	ND	ND	ND
Gamma-Chlordane	3	5	ND	ND	ND	ND	ND	ND
Total Chlordane	15	25	ND	ND	ND	ND	ND	ND
Toxaphene	60	100	ND	ND	ND	ND	ND	ND
Endrin Ketone	30	50	ND	ND	ND	ND	ND	ND
Hexachlorobenzene(HCB)	200	300	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	300	500	ND	ND	ND	ND	ND	ND
SURROGATE	Accept Limit%	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Surrogate Standard	60-140	108	109	107	125	109	107	

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
 ND=Not Detected (below $DF \times MDL$); %RC=Percent Recovery.

* = Obtained from a higher dilution analysis.

J=Trace value. Result is between $DF \times MDL$ and $DF \times PQL$.

Note: Total Chlordane is quantified based on Technical Chlordane Standard.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: AD14-PS1

Lab Job No.: UR604055
 Date Sampled: 04-11/12-2016
 Date Received: 04-13-2016
 Date Extracted: 04-13-2016
 Date Analyzed: 04-14-2016
 Date Reported: 04-21-2016

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (ppb)

LAB SAMPLE I.D.	MB	UR604055- 21,22,23,24	UR604055- 25,26	UR604055- 27,28,29	UR604055- 30,31	UR604055- 32,33		
CLIENT SAMPLE I.D.		S-69R-0.5' S-70R-0.5' S-71R-0.5' S-72R-0.5'	SS-1-0.5' SS-1-3.5'	SS-2-0.5' SS-2-4.0' SS-2-7.0'	SS-3-0.5' SS-3-3.5'	SS-4-0.5' SS-4-3.5'		
DILUTION FACTOR		1	1	1	1	1		
COMPOUND	MDL	PQL						
Alpha-BHC	3	5	ND	ND	ND	ND	ND	
Gamma-BHC (Lindane)	3	5	ND	ND	ND	ND	ND	
Heptachlor	3	5	ND	ND	ND	ND	ND	
Aldrin	3	5	ND	ND	ND	ND	ND	
Beta-BHC	3	5	ND	ND	ND	ND	ND	
Delta-BHC	3	5	ND	ND	ND	ND	ND	
Heptachlor Epoxide	3	5	ND	ND	ND	ND	ND	
Endosulfan I	3	5	ND	ND	ND	ND	ND	
4,4'-DDE	3	5	ND	15.4	3.2J	9.0	3.1J	4.4J
Dieldrin	3	5	ND	7.4	ND	ND	ND	ND
Endrin	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDD	3	5	ND	ND	ND	ND	ND	ND
Endosulfan II	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDT	3	5	ND	ND	ND	ND	ND	ND
Endrin Aldehyde	3	5	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	3	5	ND	ND	ND	ND	ND	ND
Methoxychlor	3	5	ND	ND	ND	ND	ND	ND
Alpha-Chlordane	3	5	ND	ND	ND	ND	ND	ND
Gamma-Chlordane	3	5	ND	ND	ND	ND	ND	ND
Total Chlordane	15	25	ND	ND	ND	ND	ND	ND
Toxaphene	60	100	ND	ND	ND	ND	ND	ND
Endrin Ketone	30	50	ND	ND	ND	ND	ND	ND
Hexachlorobenzene(HCB)	200	300	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	300	500	ND	ND	ND	ND	ND	ND
SURROGATE	Accept Limit%	%RC	%RC	%RC	%RC	%RC	%RC	
Surrogate Standard	60-140	108	126	101	123	116	125	

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;

ND=Not Detected (below DF × MDL); %RC=Percent Recovery.

* = Obtained from a higher dilution analysis.

J = Trace value. Result is between DF × MDL and DF × PQL.

Note: Total Chlordane is quantified based on Technical Chlordane Standard.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: AD14-PS1

Lab Job No.: UR604055
 Date Sampled: 04-11/12-2016
 Date Received: 04-13-2016
 Date Extracted: 04-13-2016
 Date Analyzed: 04-14-2016
 Date Reported: 04-21-2016

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (ppb)

LAB SAMPLE I.D.			MB	UR604055-34,35,36	UR604055-37,38,39	UR604055-40,41	UR604055-42,43	UR604055-44,45,46
CLIENT SAMPLE I.D.				SS-5-0.5' SS-5-4.0' SS-5-7.0'	SS-6-0.5' SS-6-4.0' SS-6-7.0'	SS-7-0.5' SS-7-3.5'	SS-8-0.5' SS-8-3.5'	SS-9-0.5' SS-9-4.0' SS-9-7.0'
DILUTION FACTOR			1	1	1	1	1	1/10
COMPOUND	MDL	PQL						
Alpha-BHC	3	5	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	3	5	ND	ND	ND	ND	ND	ND
Heptachlor	3	5	ND	ND	ND	ND	ND	ND
Aldrin	3	5	ND	ND	ND	ND	ND	ND
Beta-BHC	3	5	ND	ND	ND	ND	ND	ND
Delta-BHC	3	5	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	3	5	ND	ND	ND	ND	ND	ND
Endosulfan I	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDE	3	5	ND	4.4J	3.6J	12.4	4.1	ND
Dieldrin	3	5	ND	ND	ND	3.4J	ND	ND
Endrin	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDD	3	5	ND	ND	ND	ND	ND	ND
Endosulfan II	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDT	3	5	ND	ND	ND	ND	ND	ND
Endrin Aldehyde	3	5	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	3	5	ND	ND	ND	ND	ND	ND
Methoxychlor	3	5	ND	ND	ND	ND	ND	ND
Alpha-Chlordane	3	5	ND	ND	ND	ND	ND	ND
Gamma-Chlordane	3	5	ND	ND	ND	ND	ND	ND
Total Chlordane	15	25	ND	ND	ND	ND	ND	ND
Toxaphene	60	100	ND	ND	ND	ND	ND	ND
Endrin Ketone	30	50	ND	ND	ND	ND	ND	ND
Hexachlorobenzene(HCB)	200	300	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	300	500	ND	ND	ND	ND	ND	ND
SURROGATE	Accept Limit%	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Surrogate Standard	60-140	108	122	129	118	123	126	

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
 ND=Not Detected (below DF × MDL); %RC=Percent Recovery.

* = Obtained from a higher dilution analysis.

J =Trace value. Result is between DF × MDL and DF × PQL.

Note: Total Chlordane is quantified based on Technical Chlordane Standard.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: AD14-PS1

Lab Job No.: UR604055
 Date Sampled: 04-11/12-2016
 Date Received: 04-13-2016
 Date Extracted: 04-13-2016
 Date Analyzed: 04-14-2016
 Date Reported: 04-21-2016

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (ppb)

LAB SAMPLE I.D.	MB	UR604055-47,48	UR604055-40,41 DUP			
CLIENT SAMPLE I.D.		SS-10-0.5' SS-10-3.5'	SS-7-0.5' SS-7-3.5'			
DILUTION FACTOR	1	1	1			
COMPOUND	MDL	PQL				
Alpha-BHC	3	5	ND	ND	ND	
Gamma-BHC (Lindane)	3	5	ND	ND	ND	
Heptachlor	3	5	ND	ND	ND	
Aldrin	3	5	ND	ND	ND	
Beta-BHC	3	5	ND	ND	ND	
Delta-BHC	3	5	ND	ND	ND	
Heptachlor Epoxide	3	5	ND	ND	ND	
Endosulfan I	3	5	ND	ND	ND	
4,4'-DDE	3	5	ND	4.0J	11.2	
Dieldrin	3	5	ND	ND	3.3J	
Endrin	3	5	ND	ND	ND	
4,4'-DDD	3	5	ND	ND	ND	
Endosulfan II	3	5	ND	ND	ND	
4,4'-DDT	3	5	ND	ND	ND	
Endrin Aldehyde	3	5	ND	ND	ND	
Endosulfan Sulfate	3	5	ND	ND	ND	
Methoxychlor	3	5	ND	ND	ND	
Alpha-Chlordane	3	5	ND	ND	ND	
Gamma-Chlordane	3	5	ND	ND	ND	
Total Chlordane	15	25	ND	ND	ND	
Toxaphene	60	100	ND	ND	ND	
Endrin Ketone	30	50	ND	ND	ND	
Hexachlorobenzene(HCB)	200	300	ND	ND	ND	
Hexachlorocyclopentadiene	300	500	ND	ND	ND	
SURROGATE	Accept Limit%	%RC	%RC	%RC		
Surrogate Standard	60-140	108	125	127		

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;

ND=Not Detected (below DF × MDL); %RC=Percent Recovery.

* = Obtained from a higher dilution analysis.

J =Trace value. Result is between DF × MDL and DF × PQL.



Alpha Scientific Corporation
Environmental Laboratories

04-21-2016

**EPA 6010B(Arsenic)
Batch QA/QC Report**

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Soil
Batch No.: 0414-MS1

Lab Job No.: UR604055
Lab Sample I.D.: UR604055-21
Date Analyzed: 04-14-2016

I. MS/MSD Report
Unit: ppm

Analyte	EPA Method	MB Conc.	Spike Conc.	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Arsenic (As)	6010B	ND	4.0	117.2	113.6	3.1	30	70-130

II. LCS Result
Unit: ppm

Analyte	EPA Method	LCS Value	True Value	Rec.%	Accept. Limit
Arsenic (As)	6010B	3.875	4.0	96.9	80-120

ND: Not Detected.



Alpha Scientific Corporation
Environmental Laboratories

EPA 8081A (Pesticides)
Batch QA/QC Report

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Soil
Batch No.: AD14-PS1

Lab Job No.: UR604055
Lab Sample I.D.: UR604055-47,48
Date Analyzed: 04-14-2016

I. MS/MSD Report
Unit: ppb

Analyte	Method Blank	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Gamma-BHC	ND	20	24.8	24.9	124.0	124.5	0.4	30	46-127
Heptachlor	ND	20	20.1	17.2	100.5	86.0	15.5	30	31-134
Aldrin	ND	20	17.2	19.3	86.0	96.5	11.5	30	36-132
Dieldrin	ND	20	16.9	17.0	84.5	85.0	0.6	30	21-134
Endrin	ND	20	15.3	14.9	76.5	74.5	2.6	30	42-139
4,4'-DDT	ND	20	13.2	12.1	66.0	60.5	8.7	30	21-134

II. LCS Result
Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	Accept. Limit
Gamma-BHC	21.9	20	109.5	80-120
Heptachlor	24.0	20	120.0	80-120
Aldrin	18.4	20	92.0	80-120
Dieldrin	17.3	20	86.5	80-120
Endrin	16.9	20	84.5	80-120
4,4'-DDT	23.9	20	119.5	80-120

ND: Not Detected.



Alpha Scientific Corporation

Environmental Laboratories

MultiLevel Quality Control Sign Off (Soil Sample)

Sample Preparation		Extraction/Digestion/Preparation according to SOP# ASC3550B-1			
HT met: HT Date(s): <u>04-25-2016</u> Ext. Date: <u>04-13-2016</u>	Yes: **	No:	NA:		
Sample container Labels checked at all stages	Yes: **	No:	NA:		
Sample preservation checked	Yes: **	No:	NA:		
Sample preservation acceptable:	Yes: **	No:	NA:		
Sufficient sample provided for method QC:	Yes: **	No:	NA:		
Proper number of QC samples performed per method:	Yes: **	No:	NA:		
Specific QC requirements of client performed:	Yes: **	No:	NA:		
Were soil samples corrected for % moisture:	Yes	No: **	NA:		
Proper number of blanks performed:	Yes: **	No:	NA:		
Brought to final volume and labeled properly:	Yes: **	No:	NA:		
Entered information into proper lab notebooks:	Yes: **	No:	NA:		
Deviations to any of the above items:	Yes:	No: **	NA:		
Reasons/explanation for deviation & supervisors initial:					
Name of technician(s) or chemist/Date GG /04-21-2016					
Name of reviewer/Date Sue /04-21-2016					
Comments:					
Instrumentation Analyses		Samples analyzed according to SOP# ASC8081-1			
Holding time met for all analyses:	Yes: **	No:	NA:		
Calibrations include all pertinent analytes:	Yes: **	No:	NA:		
Initial calibration in control:	Yes: **	No:	NA:		
Second source calibrations in control:	Yes: **	No:	NA:		
LCS(/LCSD) passes:	Yes: **	No:	NA:		
Method blank/calibration blank passes:	Yes: **	No:	NA:		
Matrix Duplicate and MS/MSD passes:	Yes: **	No:	NA:		
Surrogate passes:	Yes: **	No:	NA:		
Results transcribed correctly from raw data:	Yes: **	No:	NA:		
Do the dilutions agree?	Yes: **	No:	NA:		
Were soil samples corrected for % moisture:	Yes:	No: **	NA:		
Manual integration 2nd level review:	Yes:	No:	NA: **		
Deviations to any of the above items:	Yes:	No: **	NA:		
Reasons/explanation for deviation & supervisors initial:					
Name of analyst(s)/Date: GG /04-21-2016					
Name of Data entry/Date: GG /04-21-2016					
Name of reviewer/Date: Sue/ 04-21-2016					
Comments:					



Alpha Scientific Corporation

Environmental Laboratories

MultiLevel Quality Control Sign Off (Soil Sample)

Sample Preparation		Extraction/DigestionPreparation according to SOP# ASC3050B-1/ASC7471-1		
HT met: HT Date(s): <u>10-08-2016</u> Ext. Date: <u>04-13-2016</u>	Yes: **	No:	NA:	
Sample container Labels checked at all stages	Yes: **	No:	NA:	
Sample preservation checked	Yes: **	No:	NA:	
Sample preservation acceptable:	Yes: **	No:	NA:	
Sufficient sample provided for method QC:	Yes: **	No:	NA:	
Proper number of QC samples performed per method:	Yes: **	No:	NA:	
Specific QC requirements of client performed:	Yes **	No:	NA:	
Were soil samples corrected for % moisture:	Yes	No: **	NA:	
Proper number of blanks performed:	Yes: **	No:	NA:	
Brought to final volume and labeled properly:	Yes: **	No:	NA:	
Entered information into proper lab notebooks:	Yes: **	No:	NA:	
Deviations to any of the above items:	Yes:	No: **	NA:	
Reasons/explanation for deviation & supervisors initial:				
Name of technician(s) or chemist/Date GG /04-21-2016				
Name of reviewer/Date Sue/ 04-21-2016				
Comments:				
Instrumentation Analyses		Samples analyzed according to SOP# ASC6010B-1/ASC7471-1		
Holding time met for all analyses:	Yes: **	No:	NA:	
Calibrations include all pertinent analytes:	Yes: **	No:	NA:	
Initial calibration in control:	Yes: **	No:	NA:	
Second source calibrations in control:	Yes: **	No:	NA:	
LCS(/LCSD) passes:	Yes: **	No:	NA:	
Method blank/calibration blank passes:	Yes: **	No:	NA:	
Matrix Duplicate and MS/MSD passes:	Yes: **	No:	NA:	
Surrogate passes:	Yes:	No:	NA: **	
Results transcribed correctly from raw data:	Yes: **	No:	NA:	
Do the dilutions agree?	Yes: **	No:	NA:	
Were soil samples corrected for % moisture:	Yes:	No: **	NA:	
Manual integration 2nd level review:	Yes:	No:	NA: **	
Deviations to any of the above items:	Yes:	No: **	NA:	
Reasons/explanation for deviation & supervisors initial:				
Name of analyst(s)/Date: GG /04-21-2016				
Name of Data entry/Date: GG /04-21-2016				
Name of reviewer/Date: Sue/ 04-21-2016				
Comments:				



Client							Analyses Requested										T.A.T. Requested			
AECOM																	8hrs <input type="checkbox"/> 24 hrs <input type="checkbox"/> 48hrs <input type="checkbox"/>			
Address																	<input type="checkbox"/> 3 days <input checked="" type="checkbox"/> Normal			
1360 E Spruce Ave, Suite 101, Fresno, CA 93611																	Sample Condition			
Report Attention		Phone		Fax		Sampled by												<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact		
Stuart StClair		(559) 448-8222				Chad Neptune												<input type="checkbox"/> Sample Seals		
Project Name/No.		Project Site															Remark			
60483930		Church and Peach PEA																		
Client Sample ID	Lab Sample ID	Sample Collect		Matrix Type	Sample Preserv	No..type* & size of container	TPH-g	TPH-d&o	EPA 8260B (BTEX, Oxygenates)	EPA 8260B (VOCs)	EPA 8270C (SVOCs)	CAM Metals	EPA 8082 (PCBs)	Arsenic (6010B)						
		Date	Time																	
-1	S-33I-0.5'	4-part Composite Analyze for OC Ps (8081A)	4/12/16	11:05	Soil	None	1, 2 oz. Jar											Discreet		
2	S-34I-0.5'		4/12/16	11:10	Soil	None	1, 2 oz. Jar												Arsenic	
3	S-35I-0.5'		4/12/16	11:15	Soil	None	1, 2 oz. Jar													
4	S-36I-0.5'		4/12/16	11:20	Soil	None	1, 2 oz. Jar													
5	S-37J-0.5'	4-part Composite Analyze for OC Ps (8081A)	4/12/16	11:25	Soil	None	1, 2 oz. Jar													
6	S-38J-0.5'		4/12/16	11:30	Soil	None	1, 2 oz. Jar												Discreet	
7	S-39J-0.5'		4/12/16	11:35	Soil	None	1, 2 oz. Jar												Arsenic	
8	S-40J-0.5'		4/12/16	11:40	Soil	None	1, 2 oz. Jar													
9	S-41K-0.5'	4-part Composite Analyze for OC Ps (8081A)	4/12/16	11:45	Soil	None	1, 2 oz. Jar													
10	S-42K-0.5'		4/12/16	11:50	Soil	None	1, 2 oz. Jar													
11	S-43K-0.5'		4/12/16	11:55	Soil	None	1, 2 oz. Jar												Discreet	
12	S-44K-0.5'		4/12/16	12:00	Soil	None	1, 2 oz. Jar												Arsenic	
13	S-45L-0.5'	4-part Composite Analyze for OC Ps (8081A)	4/11/16	15:10	Soil	None	1, 2 oz. Jar													
14	S-46L-0.5'		4/11/16	15:15	Soil	None	1, 2 oz. Jar													
15	S-47L-0.5'		4/11/16	15:20	Soil	None	1, 2 oz. Jar													
16	S-48L-0.5'		4/11/16	15:25	Soil	None	1, 2 oz. Jar												Discreet	
																			Arsenic	

Relinquished by	Company	Date	Time	Received by	Company	Date	Time	Container types: M=metal Tube A=Air Bag P=Plastic bottle G=Glass bottle V=VOA vial	
Chad Neptune	AECOM	4/12/2016	1600	On Trac					
Relinquished by	Company	Date	Time	Received by	Company	Date	Time		
				<i>[Signature]</i>	ASC	5/13/16	8:45 Am		



ALPHA SCIENTIFIC CORPORATION
CHAIN OF CUSTODY RECORD

Client							Analyses Requested										T.A.T. Requested			
AECOM																	<input type="checkbox"/> 8hrs <input type="checkbox"/> 24 hrs <input type="checkbox"/> 48hrs <input type="checkbox"/> 3 days <input checked="" type="checkbox"/> Normal			
Address																	Sample Condition			
1360 E Spruce Ave, Suite 101, Fresno, CA 93611																	<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seals			
Report Attention		Phone		Fax		Sampled by												Remark		
Stuart StClair		(559) 448-8222				Chad Neptune														
Project Name/No.		Project Site																		
60483930		Church and Peach PEA																		
Client Sample ID	Lab Sample ID	Sample Collect		Matrix Type	Sample Preserv	No. type* & size of container	TPH-g	TPH-d&o	EPA 8260B (BTEX, Oxygenates)	EPA 8260B (VOCs)	EPA 8270C (SVOCs)	CAM Metals	EPA 8082 (PCBs)	Arsenic (6010B)	OCs (8061A)					
		Date	Time																	
UR 6040 55																				
-17	S-53N-0.5'	4-part Composite		4/11/16	14:45	Soil	None	1, 2 oz, Jar												
18	S-54N-0.5'	Analyze for		4/11/16	14:50	Soil	None	1, 2 oz, Jar						X				Disinfect		
19	S-55N-0.5'	OCs (8061A)		4/11/16	14:55	Soil	None	1, 2 oz, Jar										Arsenic		
20	S-56N-0.5'			4/11/16	15:00	Soil	None	1, 2 oz, Jar												
21	S-69R-0.5'	4-part Composite		4/11/16	14:25	Soil	None	1, 2 oz, Jar						X				Disinfect		
22	S-70R-0.5'	Analyze for		4/11/16	14:30	Soil	None	1, 2 oz, Jar										Arsenic		
23	S-71R-0.5'	OCs (8061A)		4/11/16	14:35	Soil	None	1, 2 oz, Jar												
24	S-72R-0.5'			4/11/16	14:40	Soil	None	1, 2 oz, Jar												
25	SS-1-0.5'	2-part Composite		4/12/16	12:05	Soil	None	1, 2 oz, Jar						X	X			Analyze		
26	SS-1-3.5'			4/12/16	12:05	Soil	None	1, 2 oz, Jar										Composite		
27	SS-2-0.5'	2-part		4/12/16	12:15	Soil	None	1, 2 oz, Jar						X	X			Analyze		
28	SS-2-4.0'	Composite		4/12/16	12:15	Soil	None	1, 2 oz, Jar										Composite		
29	SS-2-7.0'			4/12/16	12:15	Soil	None	1, 2 oz, Jar												
30	SS-3-0.5'	2-part		4/12/16	12:25	Soil	None	1, 2 oz, Jar						X	X			Analyze		
31	SS-3-3.5'	Composite		4/12/16	12:25	Soil	None	1, 2 oz, Jar										Composite		
32	SS-4-0.5'	2-part		4/12/16	12:35	Soil	None	1, 2 oz, Jar						X	X			Analyze		
33	SS-4-3.5'	Composite		4/12/16	12:35	Soil	None	1, 2 oz, Jar										Composite		

Relinquished by	Company	Date	Time	Received by	Company	Date	Time	Container types:
Chad Neptune	AECOM	4/12/2016	1600	On Trac				M=metal Tube A=Air Bag P=Plastic bottle G=Glass bottle V=VOA vial
Relinquished by	Company	Date	Time	Received by	Company	Date	Time	
				<i>[Signature]</i>	ASC	4/13/16	8:45 AM	



ALPHA SCIENTIFIC CORPORATION
CHAIN OF CUSTODY RECORD

Client							Analyses Requested										T.A.T. Requested			
AECOM																	<input type="checkbox"/> 8hrs <input type="checkbox"/> 24 hrs <input type="checkbox"/> 48hrs <input type="checkbox"/> 3 days <input checked="" type="checkbox"/> Normal			
Address																	Sample Condition			
1360 E Spruce Ave, Suite 101, Fresno, CA 93611																	<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seals			
Report Attention		Phone		Fax		Sampled by												Remark		
Stuart StClair		(559) 448-8222				Chad Neptune														
Project Name/No.		Project Site																		
60483930		Church and Peach PEA																		
Client Sample ID	Lab Sample ID	Sample Collect		Matrix Type	Sample Preserv	No. type* & size of container	TPH-g	TPH-d&o	EPA 8260B (BTEX, Oxygenates)	EPA 8260B (VOCs)	EPA 8270C (SVOCs)	CAM Metals	EPA 8082 (PCBs)	Arsenic (6010B)	OCPs (6081A)					
		Date	Time																	
34	SS-5-0.5'	3-part		4/12/16	12:45	Soil	None	1, 2 oz, Jar										Analyze		
35	SS-5-4.0'	Composite		4/12/16	12:45	Soil	None	1, 2 oz, Jar										Composite		
36	SS-5-7.0'			4/12/16	12:45	Soil	None	1, 2 oz, Jar												
37	SS-6-0.5'	3-part		4/12/16	12:55	Soil	None	1, 2 oz, Jar										Analyze		
38	SS-6-4.0'	Composite		4/12/16	12:55	Soil	None	1, 2 oz, Jar										Composite		
39	SS-6-7.0'			4/12/16	12:55	Soil	None	1, 2 oz, Jar												
40	SS-7-0.5'	2-part		4/12/16	13:05	Soil	None	1, 2 oz, Jar	Lab Duplicate of Composite									Analyze		
41	SS-7-3.5'	Composite		4/12/16	13:05	Soil	None	1, 2 oz, Jar										Composite		
42	SS-8-0.5'	2-part		4/12/16	13:15	Soil	None	1, 2 oz, Jar										Analyze		
43	SS-8-3.5'	Composite		4/12/16	13:15	Soil	None	1, 2 oz, Jar										Composite		
44	SS-9-0.5'	2-part		4/12/16	13:25	Soil	None	1, 2 oz, Jar										Analyze		
45	SS-9-4.0'	Composite		4/12/16	13:25	Soil	None	1, 2 oz, Jar										Composite		
46	SS-9-7.0'			4/12/16	13:25	Soil	None	1, 2 oz, Jar												
47	SS-10-0.5'	2-part		4/12/16	13:35	Soil	None	1, 2 oz, Jar										Analyze		
48	SS-10-3.5'	Composite		4/12/16	13:35	Soil	None	1, 2 oz, Jar										Composite		

Relinquished by	Company	Date	Time	Received by	Company	Date	Time	Container types:	M-metal Tube
Chad Neptune	AECOM	4/12/2016	1600	On Trac				A=Air Bag	P-Plastic bottle
Relinquished by	Company	Date	Time	Received by	Company	Date	Time	G=Glass bottle	V-VOA vial
				<i>[Signature]</i>	ASCI	4/13/16	8:45 AM		



Alpha Scientific Corporation
Environmental Laboratories

04-22-2016

Mr. Stuart St. Clair
AECOM / URS Corporation
1360 E. Spruce Ave, Suite 101
Fresno, CA 93720

Project: 60483930
Project Site: Church and Peach PEA
Sample Date: 04-14-2016
Lab Job No.: UR604073

Dear Mr. St. Clair:

Enclosed please find the analytical report for the sample(s) received by Alpha Scientific Corporation on 04-16-2016 and analyzed for the following analytes:

EPA 6010B (Arsenic)
EPA 8081A (Organochlorine Pesticides)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

Alpha Scientific Corporation is a CA DHS certified laboratory (Certificate Number 2633). Thank you for giving us the opportunity to serve you. Please feel free to call me at (562) 809-8880 if our laboratory can be of further service to you.

Sincerely,

Roger Wang, Ph. D.
Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.



Alpha Scientific Corporation
Environmental Laboratories

Client: AECOM / URS Corporation
Project: 60483930
Project Site: Church and Peach PEA
Matrix: Soil
Extraction Method: EPA 3550B
Batch No.: 0419-MS1

Lab Job No.: UR604073
Date Sampled: 04-14-2016
Date Received: 04-16-2016
Date Extracted: 04-18-2016
Date Analyzed: 04-19-2016
Date Reported: 04-22-2016

EPA 6010B (As, TTLC)
Reporting Unit: mg/kg (ppm)

Sample ID	Lab ID	Arsenic (As)	Reporting Limit
MB		ND	0.5
IW-1	UR604073-1	0.86	0.5
IW-2	UR604073-2	1.1	0.5
IW-3	UR604073-3	0.99	0.5
IW-4	UR604073-4	1.1	0.5
S-1A	UR604073-5	1.6	0.5
S-1A	UR604073-5 DUP	1.6	0.5
S-6B	UR604073-10	1.1	0.5
S-11C	UR604073-15	0.92	0.5
S-16D	UR604072-20	1.1	0.5
S-17E	UR604072-21	0.90	0.5

ND: Not Detected (at the specified limit).



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: AD21-PS1

Lab Job No.: UR604073
 Date Sampled: 04-14-2016
 Date Received: 04-16-2016
 Date Extracted: 04-18-2016
 Date Analyzed: 04-21-2016
 Date Reported: 04-22-2016

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (ppb)

LAB SAMPLE I.D.			MB	UR604073-1	UR604073-2	UR604073-3	UR604073-4	UR604073-5,6,7,8
CLIENT SAMPLE I.D.				IW-1	IW-2	IW-3	IW-4	S-1A, S-2A S-3A, S-4A
DILUTION FACTOR			1	1	1	1	1	1
COMPOUND	MDL	PQL						
Alpha-BHC	3	5	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	3	5	ND	ND	ND	ND	ND	ND
Heptachlor	3	5	ND	ND	ND	ND	ND	ND
Aldrin	3	5	ND	ND	ND	ND	ND	ND
Beta-BHC	3	5	ND	ND	ND	ND	ND	ND
Delta-BHC	3	5	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	3	5	ND	ND	ND	ND	ND	ND
Endosulfan I	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDE	3	5	ND	5.8	17.8	34.1	53.8	45.5
Dieldrin	3	5	ND	ND	ND	ND	ND	ND
Endrin	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDD	3	5	ND	ND	ND	ND	ND	ND
Endosulfan II	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDT	3	5	ND	ND	ND	3.5J	29.5	13.4
Endrin Aldehyde	3	5	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	3	5	ND	ND	ND	ND	ND	ND
Methoxychlor	3	5	ND	ND	ND	ND	ND	ND
Alpha-Chlordane	3	5	ND	ND	ND	ND	ND	ND
Gamma-Chlordane	3	5	ND	ND	ND	ND	ND	ND
Total Chlordane	15	25	ND	ND	ND	ND	ND	ND
Toxaphene	60	100	ND	ND	ND	ND	ND	ND
Endrin Ketone	30	50	ND	ND	ND	ND	ND	ND
Hexachlorobenzene(HCB)	200	300	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	300	500	ND	ND	ND	ND	ND	ND
SURROGATE	Accept Limit%	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Surrogate Standard	60-140	91	91	94	89	84	84	91

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
 ND=Not Detected (below DF × MDL); %RC=Percent Recovery.
 * = Obtained from a higher dilution analysis.
 J =Trace value. Result is between DF × MDL and DF × PQL.
 Note: Total Chlordane is quantified based on Technical Chlordane Standard.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: AD21-PS1

Lab Job No.: UR604073
 Date Sampled: 04-14-2016
 Date Received: 04-16-2016
 Date Extracted: 04-18-2016
 Date Analyzed: 04-21-2016
 Date Reported: 04-22-2016

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (ppb)

LAB SAMPLE I.D.	MB	UR604073- 5,6,7,8 Dup	UR604073- 9,10,11,12	UR604073- 13,14,15,16	UR604073- 17,18,19,20	UR604073- 21,22,23,24
CLIENT SAMPLE I.D.		S-1A, S-2A S-3A, S-4A	S-5B, S-6B S-7B, S-8B	S-9C, S-10C S-11C, S-12C	S-13D, S-14D S-15D, S-16D	S-17E, S-18E S-19E, S-20E
DILUTION FACTOR	1	1	1	1	1	1
COMPOUND	MDL	PQL				
Alpha-BHC	3	5	ND	ND	ND	ND
Gamma-BHC (Lindane)	3	5	ND	ND	ND	ND
Heptachlor	3	5	ND	ND	ND	ND
Aldrin	3	5	ND	ND	ND	ND
Beta-BHC	3	5	ND	ND	ND	ND
Delta-BHC	3	5	ND	ND	ND	ND
Heptachlor Epoxide	3	5	ND	ND	ND	ND
Endosulfan I	3	5	ND	ND	ND	ND
4,4'-DDE	3	5	ND	53.8	17.7	ND
Dieldrin	3	5	ND	ND	ND	ND
Endrin	3	5	ND	ND	ND	ND
4,4'-DDD	3	5	ND	ND	ND	ND
Endosulfan II	3	5	ND	ND	ND	ND
4,4'-DDT	3	5	ND	12.5	7.4	4.1J
Endrin Aldehyde	3	5	ND	ND	ND	ND
Endosulfan Sulfate	3	5	ND	ND	ND	ND
Methoxychlor	3	5	ND	ND	ND	ND
Alpha-Chlordane	3	5	ND	ND	ND	ND
Gamma-Chlordane	3	5	ND	ND	ND	ND
Total Chlordane	15	25	ND	ND	ND	ND
Toxaphene	60	100	ND	ND	ND	ND
Endrin Ketone	30	50	ND	ND	ND	ND
Hexachlorobenzene(HCB)	200	300	ND	ND	ND	ND
Hexachlorocyclopentadiene	300	500	ND	ND	ND	ND
SURROGATE	Accept Limit%	%RC	%RC	%RC	%RC	%RC
Surrogate Standard	60-140	91	87	95	92	96

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
 ND=Not Detected (below DF × MDL); %RC=Percent Recovery.
 * = Obtained from a higher dilution analysis.
 J=Trace value. Result is between DF × MDL and DF × PQL.
 Note: Total Chlordane is quantified based on Technical Chlordane Standard.



Alpha Scientific Corporation
Environmental Laboratories

04-22-2016

**EPA 6010B(Arsenic)
Batch QA/QC Report**

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Soil
Batch No.: 0419-MS3

Lab Job No.: UR604073
Lab Sample I.D.: UR604073-1
Date Analyzed: 04-19-2016

I. MS/MSD Report
Unit: ppm

Analyte	EPA Method	MB Conc.	Spike Conc.	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Arsenic (As)	6010B	ND	4.0	109.3	105.4	3.7	30	70-130

II. LCS Result
Unit: ppm

Analyte	EPA Method	LCS Value	True Value	Rec.%	Accept. Limit
Arsenic (As)	6010B	4.396	4.0	109.9	80-120

ND: Not Detected.



Alpha Scientific Corporation
Environmental Laboratories

**EPA 8081A (Pesticides)
Batch QA/QC Report**

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Soil
Batch No.: AD21-PS1

Lab Job No.: UR604073
Lab Sample I.D.: UR604073-1
Date Analyzed: 04-21-2016

I. MS/MSD Report
Unit: ppb

Analyte	Method Blank	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Gamma-BHC	ND	20	23.6	23.5	118.0	117.5	0.4	30	46-127
Heptachlor	ND	20	22.6	23.4	113.0	117.0	3.5	30	31-134
Aldrin	ND	20	18.8	19.3	94.0	96.5	2.6	30	36-132
Dieldrin	ND	20	19.0	19.8	95.0	99.0	4.1	30	21-134
Endrin	ND	20	19.3	19.7	96.5	98.5	2.1	30	42-139
4,4'-DDT	ND	20	24.4	25.0	122.0	125.0	2.4	30	21-134

II. LCS Result
Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	Accept. Limit
Gamma-BHC	23.7	20	118.5	80-120
Heptachlor	22.2	20	111.0	80-120
Aldrin	19.5	20	97.5	80-120
Dieldrin	19.3	20	96.5	80-120
Endrin	22.8	20	114.0	80-120
4,4'-DDT	23.5	20	117.5	80-120

ND: Not Detected.



Alpha Scientific Corporation

Environmental Laboratories

MultiLevel Quality Control Sign Off (Soil Sample)

Sample Preparation		Extraction/DigestionPreparation according to SOP# ASC3550B-1		
HT met: HT Date(s): <u>04-28-2016</u> Ext. Date: <u>04-18-2016</u>	Yes: **	No:	NA:	
Sample container Labels checked at all stages	Yes: **	No:	NA:	
Sample preservation checked	Yes: **	No:	NA:	
Sample preservation acceptable:	Yes: **	No:	NA:	
Sufficient sample provided for method QC:	Yes: **	No:	NA:	
Proper number of QC samples performed per method:	Yes: **	No:	NA:	
Specific QC requirements of client performed:	Yes **	No:	NA:	
Were soil samples corrected for % moisture:	Yes	No: **	NA:	
Proper number of blanks performed:	Yes: **	No:	NA:	
Brought to final volume and labeled properly:	Yes: **	No:	NA:	
Entered information into proper lab notebooks:	Yes: **	No:	NA:	
Deviations to any of the above items:	Yes:	No: **	NA:	
Reasons/explanation for deviation & supervisors initial:				
Name of technician(s) or chemist/Date GG /04-22-2016				
Name of reviewer/Date Sue /04-22-2016				
Comments:				
Instrumentation Analyses		Samples analyzed according to SOP# ASC8081-1		
Holding time met for all analyses:	Yes: **	No:	NA:	
Calibrations include all pertinent analytes:	Yes: **	No:	NA:	
Initial calibration in control:	Yes: **	No:	NA:	
Second source calibrations in control:	Yes: **	No:	NA:	
LCS(/LCSD) passes:	Yes: **	No:	NA:	
Method blank/calibration blank passes:	Yes: **	No:	NA:	
Matrix Duplicate and MS/MSD passes:	Yes: **	No:	NA:	
Surrogate passes:	Yes: **	No:	NA:	
Results transcribed correctly from raw data:	Yes: **	No:	NA:	
Do the dilutions agree?	Yes: **	No:	NA:	
Were soil samples corrected for % moisture:	Yes:	No: **	NA:	
Manual integration 2nd level review:	Yes:	No:	NA: **	
Deviations to any of the above items:	Yes:	No: **	NA:	
Reasons/explanation for deviation & supervisors initial:				
Name of analyst(s)/Date: GG /04-22-2016				
Name of Data entry/Date: GG /04-22-2016				
Name of reviewer/Date: Sue/ 04-22-2016				
Comments:				



Alpha Scientific Corporation

Environmental Laboratories

MultiLevel Quality Control Sign Off (Soil Sample)

Sample Preparation	Extraction/DigestionPreparation according to SOP# ASC3050B-1/ASC7471-1			
HT met: HT Date(s): <u>10-11-2016</u> Ext. Date: <u>04-18-2016</u>	Yes: **	No:	NA:	
Sample container Labels checked at all stages	Yes: **	No:	NA:	
Sample preservation checked	Yes: **	No:	NA:	
Sample preservation acceptable:	Yes: **	No:	NA:	
Sufficient sample provided for method QC:	Yes: **	No:	NA:	
Proper number of QC samples performed per method:	Yes: **	No:	NA:	
Specific QC requirements of client performed:	Yes **	No:	NA:	
Were soil samples corrected for % moisture:	Yes	No: **	NA:	
Proper number of blanks performed:	Yes: **	No:	NA:	
Brought to final volume and labeled properly:	Yes: **	No:	NA:	
Entered information into proper lab notebooks:	Yes: **	No:	NA:	
Deviations to any of the above items:	Yes:	No: **	NA:	
Reasons/explanation for deviation & supervisors initial:				
Name of technician(s) or chemist/Date GG /04-22-2016				
Name of reviewer/Date Sue/ 04-22-2016				
Comments:				
Instrumentation Analyses	Samples analyzed according to SOP# ASC6010B-1/ASC7471-1			
Holding time met for all analyses:	Yes: **	No:	NA:	
Calibrations include all pertinent analytes:	Yes: **	No:	NA:	
Initial calibration in control:	Yes: **	No:	NA:	
Second source calibrations in control:	Yes: **	No:	NA:	
LCS(/LCSD) passes:	Yes: **	No:	NA:	
Method blank/calibration blank passes:	Yes: **	No:	NA:	
Matrix Duplicate and MS/MSD passes:	Yes: **	No:	NA:	
Surrogate passes:	Yes:	No:	NA: **	
Results transcribed correctly from raw data:	Yes: **	No:	NA:	
Do the dilutions agree?	Yes: **	No:	NA:	
Were soil samples corrected for % moisture:	Yes:	No: **	NA:	
Manual integration 2nd level review:	Yes:	No:	NA: **	
Deviations to any of the above items:	Yes:	No: **	NA:	
Reasons/explanation for deviation & supervisors initial:				
Name of analyst(s)/Date: GG /04-22-2016				
Name of Data entry/Date: GG /04-22-2016				
Name of reviewer/Date: Sue/ 04-22-2016				
Comments:				



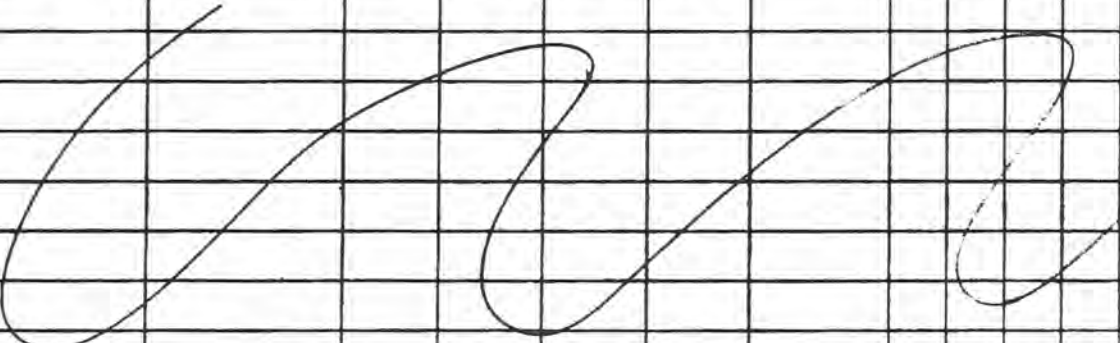
ALPHA SCIENTIFIC CORPORATION
CHAIN OF CUSTODY RECORD

Client: <u>AECOM * 60483930.2000</u>						Analyses Requested						F.A.T. Requested <input type="checkbox"/> 8 hrs <input type="checkbox"/> 24 hrs <input type="checkbox"/> 48 hrs						
Address: <u>1300 E. SPRUCE AVE #101 FRESNO CA 93720</u>												<input type="checkbox"/> 3 days <input checked="" type="checkbox"/> Normal						
Report Attention: <u>STUART SCLAIR</u>		Phone: <u>559 4488222</u>		Fax:		Sampled by: <u>E. SINCO</u>								Sample Condition <input checked="" type="checkbox"/> Filled <input checked="" type="checkbox"/> Intact				
Project Name/No.: <u>*</u>		Project Site: <u>LAURIN & PEARL (PLANNED SCHOOL SITE)</u>										Sample seals						
UR 604073	Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	TPH-Gasoline	TPH-Diesel	8260B (BTEX, Oxygenates)	8260H (VOCs)	8270B (SVOCs)	8082 (PCBs)	EPA 8081A (OCs)	EPA 8081B (As)	Remark		
			Date	Time														
-1	IW-1		4/14/16	1558	SOIL	NONE												
-2	IW-2			1559											X			
-3	IW-3			1601											X			
-4	IW-4			1603											X			
-5	S-1A	LAB COMPOSITE		1444											X		ANALYZE	
-6	S-2A			1439													B DWPs	
-7	S-3A			1437														on S-1A
-8	S-4A			1435														CIPs on Comp
-9	S-5B	LAB		1455	1448													
-10	S-6B	COMPOSITE		1458	1453										X			
-11	S-7B			1455														
-12	S-8B			1458														
-13	S-9BC	LAB		1514													LAB	
-14	S-10BC	COMPOSITE		1510													DUPLICATE	
-15	S-11BC			1507											X		IN LAB	
-16	S-12BC			1503													COMPOSITE	
Relinquished by: <u>Eugene Sino</u>		Company: <u>AECOM</u>		Date: <u>4/14/16</u>	Time: <u>1730</u>	Received by: <u>ON TRAC</u>		Company:								Metal Tube sterile bottle 10A vial		
Relinquished by:		Company:		Date:	Time:	Received by: <u>W L W ABC</u>		Company:								Sarc		



CHAIN OF CUSTODY RECORD

Lab Job Number UR 604073

Client: AECOM * 60483930.2000					Analyses Requested					T.A.T. Requested <input type="checkbox"/> 8 hrs <input type="checkbox"/> 24 hrs <input type="checkbox"/> 48 hrs <input type="checkbox"/> 3 days <input checked="" type="checkbox"/> Normal							
Address										Sample Condition <input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Contact <input type="checkbox"/> Sample seals							
Report Attention		Phone		Fax		Sampled by				Remark							
Project Name/No. * 604073		Project Site CHURCH & PEARCE															
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	TPH-Gasoline	TPH-Diesel	8260B (BTEX, Oxygenates)	8260B (VOCs)	8270C (SVOCs)	EPA 8081A (OCs)	EPA 8081B (As)				
		Date	Time														
-17	S-13D	LAB	4/14/16	1541	SOIL	NONE								ANALYZE LAB COMPOSITE ONLY i.e. VOCs			
-18	S-14D	COMPOSITE		1539													
-19	S-15D			1535													
-20	S-16D			1532								X					
-21	S-17E	LAB		1535								X					
-22	S-18E	COMPOSITE		1532													
-23	S-19E			1551													
-24	S-20E			1554													
																	
Relinquished by Liquor Liu		Company AECOM		Date 4/14/16		Time 1730		Received by DN TRAC		Company		Date 4/14/16		Time 1732		Container types M=Metal Tube P=Plastic bottle G=Glass bottle V=Vial	
Relinquished by		Company		Date		Time		Received by		Company		Date 4/16/16		Time 1:30pm			



Alpha Scientific Corporation
Environmental Laboratories

04-26-2016

Mr. Stuart St. Clair
AECOM / URS Corporation
1360 E. Spruce Ave, Suite 101
Fresno, CA 93720

Project: 60483930
Project Site: Church and Peach PEA
Sample Date: 04-12/13-2016
Lab Job No.: UR604059

Dear Mr. St. Clair:

Enclosed please find the analytical report for the sample(s) received by Alpha Scientific Corporation on 04-14-2016 and analyzed for the following analytes:

EPA 8015M (TPH-Carbon Chain)
EPA 8260B (VOCs & Oxygenates by GC/MS)
EPA 8270C (SVOCs by GC/MS)
EPA 6010B (Arsenic)
EPA 6010B (Lead)
EPA 8081A (Organochlorine Pesticides)
EPA 8082 (PCBs)
EPA 6010B/7470A-7471A for CAM Metals

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

Alpha Scientific Corporation is a CA DHS certified laboratory (Certificate Number 2633). Thank you for giving us the opportunity to serve you. Please feel free to call me at (562) 809-8880 if our laboratory can be of further service to you.

Sincerely,

Roger Wang, Ph. D.
Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Batch No. for TPH-g: BMD14-GS1
 Batch No. for TPH-d & o: BD15-DS1

Lab Job No.: UR604059
 Date Sampled: 04-13-2016
 Date Received: 04-14-2016
 Date Analyzed: 04-14-2016
 Date Analyzed: 04-15-2016
 Date Reported: 04-22-2016

EPA 8015M (Total Petroleum Hydrocarbons)

Reporting Unit: mg/kg (ppm)

Sample ID	Lab ID	DF for GRO	C4-C12 (GRO)*	Surrog Rec.% (GRO)	DF for D&ORO	C13-C23 DRO	C24-C40 ORO	Surrog Rec.% (D&ORO)
MDL			0.2			1	25	
PQL			0.5			5	50	
Method Blank		1	ND	104	1	ND	ND	
SP-1-7.0'	UR604059-13	1	ND	99	1	ND	ND	82
SP-1-7.0' Dup	UR604059-13 Dup	1	ND	97	1	ND	ND	93
SP-1-10.0'	UR604059-14	1	ND	95	1	ND	ND	93
SP-2-7.0'	UR604059-15	1	ND	96	1	ND	ND	95
SP-2-10.0'	UR604059-16	1	ND	94	1	ND	ND	91
SP-3-7.0'	UR604059-17	1	ND	94	1	ND	ND	94
SP-3-10.0'	UR604059-18	1	ND	92	1	ND	ND	93

* GRO (Gasoline Range Organics) result is obtained from purge and trap analysis using LUFT-GCMS Method;
 DRO=Diesel Range Organics; ORO=Oil Range Organics;
 MDL= Method Detection Limit; PQL= Practical Quantitation Limit;
 DF= Dilution Factor ; ND=Not Detected (below DF × MDL);
 J=Trace Value, result is below DF × PQL but above DF × MDL;

Note: Surrogate recovery acceptance limits are 70-130%.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Water
 Batch No. for TPH-g: BMD15-GW1
 Batch No. for TPH-d&o: BD18-DW1

Lab Job No.: UR604059
 Date Sampled: 04-12/13-2016
 Date Received: 04-14-2016
 Date Analyzed: 04-15-2016
 Date Analyzed: 04-18-2016
 Date Reported: 04-22-2016

EPA 8015M (Gasoline, Diesel & Oil Range TPH)

Reporting Unit: $\mu\text{g/L}$ (ppb)

Sample ID	Lab ID	DF for TPH-g	C4-C12 (Gasoline Range)*	Surrog Rec.% (TPH-g)	DF for TPHd&o	C13-C23 (Diesel Range)	C24-C40 (Oil Range)	Surrog Rec.% (TPHd&o)
MDL			50			500	2000	
PQL			100			750	3000	
Method Blank		1	ND	100	1	ND	ND	87
MW-1	UR604059-76	1	ND	90	1	ND	ND	84
MW-2	UR604059-77	1	ND	89	1	ND	ND	86

** GRO (Gasoline Range Organics) result is obtained from purge and trap analysis using LUFT-GCMS Method;

MDL: Method Detection Limit; PQL: Practical Quantitation Limit;
 DF: Dilution Factor; ND: Not Detected (below $DF \times MDL$);
 J: Trace Value, result is below $DF \times PQL$ but above $DF \times MDL$.
 Note: Surrogate recovery acceptance limits are 70-130%.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
Project: 60483930

Lab Job No.: UR604059
Matrix: Soil

Date Reported: 04-22-2016
Date Sampled: 04-13-2016

EPA 8260B (VOCs by GC/MS, Page 1 of 2)

Reporting Unit: µg/kg(ppb)

Date ANALYZED			04-14	04-14-16	04-14-16	04-14-16	04-14-16	04-14-16
DILUTION FACTOR			1	1	1	1	1	1
LAB SAMPLE I.D.				UR604059-13	UR604059-13 Dup	UR604059-14	UR604059-15	UR604059-16
CLIENT SAMPLE I.D.				SP-1-7.0'	SP-1-7.0'	SP-1-10.0'	SP-2-7.0'	SP-2-10.0'
COMPOUND	MDL	PQL	MB					
Dichlorodifluoromethane	2	5	ND	ND	ND	ND	ND	ND
Chloromethane	2	5	ND	ND	ND	ND	ND	ND
Vinyl Chloride	1	2	ND	ND	ND	ND	ND	ND
Bromomethane	2	5	ND	ND	ND	ND	ND	ND
Chloroethane	2	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	2	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	2	5	ND	ND	ND	ND	ND	ND
Iodomethane	2	5	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	5	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	2	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	2	5	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	2	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	2	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	2	5	ND	ND	ND	ND	ND	ND
Chloroform	2	5	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	2	5	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	1	5	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	2	5	ND	ND	ND	ND	ND	ND
Benzene	1	2	ND	ND	ND	ND	ND	ND
Trichloroethene	2	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	2	5	ND	ND	ND	ND	ND	ND
Bromodichloromethane	2	5	ND	ND	ND	ND	ND	ND
Dibromomethane	2	5	ND	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropene	2	5	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	2	5	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	2	5	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	1	5	ND	ND	ND	ND	ND	ND
Dibromochloromethane	2	5	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	2	5	ND	ND	ND	ND	ND	ND
Bromoform	2	5	ND	ND	ND	ND	ND	ND
Isopropylbenzene	2	5	ND	ND	ND	ND	ND	ND
Bromobenzene	2	5	ND	ND	ND	ND	ND	ND
Toluene	1	2	ND	ND	ND	ND	ND	ND
Tetrachloroethene	2	4	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane(EDB)	2	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	2	5	ND	ND	ND	ND	ND	ND



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
Project: 60483930

Lab Job No.: UR604059
Matrix: Soil

Date Reported: 04-22-2016
Date Sampled: 04-13-2016

EPA 8260B (VOCs by GC/MS, Page 2 of 2)

Reporting Unit: ppb

COMPOUND	MDL	PQL	MB	SP-1-7.0'	SP-1-7.0'	SP-1-10.0'	SP-2-7.0'	SP-2-10.0'
1,1,1,2-Tetrachloroethane	2	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	1	2	ND	ND	ND	3.1	ND	ND
Total Xylenes	2	4	ND	ND	ND	32.2	ND	ND
Styrene	2	5	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	2	5	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	2	5	ND	ND	ND	ND	ND	ND
n-Propylbenzene	2	5	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	2	5	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	2	5	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	2	5	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	2	5	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	2	5	ND	ND	ND	ND	ND	ND
Sec-Butylbenzene	2	5	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2	5	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	2	5	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	2	5	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	2	5	ND	ND	ND	ND	ND	ND
n-Butylbenzene	2	5	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	2	5	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	2	5	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	2	5	ND	ND	ND	ND	ND	ND
Naphthalene	2	5	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	2	5	ND	ND	ND	ND	ND	ND
Acetone	50	100	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	35	50	ND	ND	ND	ND	ND	ND
Carbon disulfide	10	15	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	35	50	ND	ND	ND	ND	ND	ND
2-Hexanone	35	50	ND	ND	ND	ND	ND	ND
Vinyl Acetate	10	15	ND	ND	ND	ND	ND	ND
Ethanol	500	1000	ND	ND	ND	ND	ND	ND
MTBE	2	5	ND	ND	ND	ND	ND	ND
ETBE	2	5	ND	ND	ND	ND	ND	ND
DIPE	2	5	ND	ND	ND	ND	ND	ND
TAME	2	5	ND	ND	ND	ND	ND	ND
TBA	20	50	ND	ND	ND	ND	ND	ND
SURROGATE	Accept Limit%	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoro-methane	79-126	99	96	1221	101	118	102	
Toluene-d8	79-121	101	112	112	103	99	107	
Bromofluoro-benzene	71-131	100	96	93	92	92	90	

MDL=Method Detection Limit; PQL=Practical Quantification Limit; MB=Method Blank; ND=Not Detected (below DF × MDL); * Obtained from a higher dilution analysis; J=Trace Value, result is below DF × PQL but above DF × MDL; m=Matrix Interference; F=Antifoamer is used due to foaming.
Note: Surrogate spike concentrations are 25 µg/L for all the compounds.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
Project: 60483930

Lab Job No.: UR604059
Matrix: Soil

Date Reported: 04-22-2016
Date Sampled: 04-13-2016

EPA 8260B (VOCs by GC/MS, Page 1 of 2)

Reporting Unit: µg/kg(ppb)

Date ANALYZED		04-14	04-14-16	04-14-16			
DILUTION FACTOR		1	1	1			
LAB SAMPLE I.D.			UR604059-17	UR604059-18			
CLIENT SAMPLE I.D.			SP-3-7.0'	SP-3-10.0'			
COMPOUND	MDL	PQL	MB				
Dichlorodifluoromethane	2	5	ND	ND	ND		
Chloromethane	2	5	ND	ND	ND		
Vinyl Chloride	1	2	ND	ND	ND		
Bromomethane	2	5	ND	ND	ND		
Chloroethane	2	5	ND	ND	ND		
Trichlorofluoromethane	2	5	ND	ND	ND		
1,1-Dichloroethene	2	5	ND	ND	ND		
Iodomethane	2	5	ND	ND	ND		
Methylene Chloride	5	5	ND	ND	ND		
trans-1,2-Dichloroethene	2	5	ND	ND	ND		
1,1-Dichloroethane	2	5	ND	ND	ND		
2,2-Dichloropropane	2	5	ND	ND	ND		
cis-1,2-Dichloroethene	2	5	ND	ND	ND		
Bromochloromethane	2	5	ND	ND	ND		
Chloroform	2	5	ND	ND	ND		
1,2-Dichloroethane	1	5	ND	ND	ND		
1,1,1-Trichloroethane	2	5	ND	ND	ND		
Carbon tetrachloride	1	5	ND	ND	ND		
1,1-Dichloropropene	2	5	ND	ND	ND		
Benzene	1	2	ND	ND	ND		
Trichloroethene	2	5	ND	ND	ND		
1,2-Dichloropropane	2	5	ND	ND	ND		
Bromodichloromethane	2	5	ND	ND	ND		
Dibromomethane	2	5	ND	ND	ND		
Trans-1,3-Dichloropropene	2	5	ND	ND	ND		
cis-1,3-Dichloropropene	2	5	ND	ND	ND		
1,1,2-Trichloroethane	2	5	ND	ND	ND		
1,3-Dichloropropane	1	5	ND	ND	ND		
Dibromochloromethane	2	5	ND	ND	ND		
2-Chloroethylvinyl ether	2	5	ND	ND	ND		
Bromoform	2	5	ND	ND	ND		
Isopropylbenzene	2	5	ND	ND	ND		
Bromobenzene	2	5	ND	ND	ND		
Toluene	1	2	ND	ND	ND		
Tetrachloroethene	2	4	ND	ND	ND		
1,2-Dibromoethane(EDB)	2	5	ND	ND	ND		
Chlorobenzene	2	5	ND	ND	ND		



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930

Lab Job No.: UR604059
 Matrix: Soil

Date Reported: 04-22-2016
 Date Sampled: 04-13-2016

EPA 8260B (VOCs by GC/MS, Page 2 of 2)

Reporting Unit: ppb

COMPOUND	MDL	PQL	MB	SP-3-7.0'	SP-3-10.0'			
1,1,1,2-Tetrachloroethane	2	5	ND	ND	ND			
Ethylbenzene	1	2	ND	ND	ND			
Total Xylenes	2	4	ND	ND	ND			
Styrene	2	5	ND	ND	ND			
1,1,2,2-Tetrachloroethane	2	5	ND	ND	ND			
1,2,3-Trichloropropane	2	5	ND	ND	ND			
n-Propylbenzene	2	5	ND	ND	ND			
2-Chlorotoluene	2	5	ND	ND	ND			
4-Chlorotoluene	2	5	ND	ND	ND			
1,3,5-Trimethylbenzene	2	5	ND	ND	ND			
tert-Butylbenzene	2	5	ND	ND	ND			
1,2,4-Trimethylbenzene	2	5	ND	ND	ND			
Sec-Butylbenzene	2	5	ND	ND	ND			
1,3-Dichlorobenzene	2	5	ND	ND	ND			
p-Isopropyltoluene	2	5	ND	ND	ND			
1,4-Dichlorobenzene	2	5	ND	ND	ND			
1,2-Dichlorobenzene	2	5	ND	ND	ND			
n-Butylbenzene	2	5	ND	ND	ND			
1,2,4-Trichlorobenzene	2	5	ND	ND	ND			
1,2-Dibromo-3-Chloropropane	2	5	ND	ND	ND			
Hexachlorobutadiene	2	5	ND	ND	ND			
Naphthalene	2	5	ND	ND	ND			
1,2,3-Trichlorobenzene	2	5	ND	ND	ND			
Acetone	50	100	ND	ND	ND			
2-Butanone (MEK)	35	50	ND	ND	ND			
Carbon disulfide	10	15	ND	ND	ND			
4-Methyl-2-pentanone	35	50	ND	ND	ND			
2-Hexanone	35	50	ND	ND	ND			
Vinyl Acetate	10	15	ND	ND	ND			
Ethanol	500	1000	ND	ND	ND			
MTBE	2	5	ND	ND	ND			
ETBE	2	5	ND	ND	ND			
DIPE	2	5	ND	ND	ND			
TAME	2	5	ND	ND	ND			
TBA	20	50	ND	ND	ND			
SURROGATE	Accept Limit%	%RC	%RC	%RC				
Dibromofluoro-methane	79-126	99	99	100				
Toluene-d8	79-121	101	95	108				
Bromofluoro-benzene	71-131	100	90	88				

MDL=Method Detection Limit; PQL=Practical Quantification Limit; MB=Method Blank; ND=Not Detected (below DF × MDL); * Obtained from a higher dilution analysis; J=Trace Value, result is below DF × PQL but above DF × MDL; m=Matrix Interference; F=Antifoamer is used due to foaming.
 Note: Surrogate spike concentrations are 25 µg/L for all the compounds.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM/URS Corporation
Project: 60483930

Lab Job No.: UR604059
Matrix: Water

Date Reported: 04-22-2016
Date Sampled: 04-12/13-2016

EPA 8260B (VOCs by GC/MS, Page 1 of 2)

Reporting Unit: µg/L(ppb)

Date ANALYZED	04-15	04-15-16	04-15-16				
PREPARATION METHOD	5030	5030	5030				
DILUTION FACTOR	1	1	1				
LAB SAMPLE I.D.		UR604059-1	UR604059-2				
CLIENT SAMPLE I.D.		MW-1	MW-2				
COMPOUND	MDL	PQL	MB				
Dichlorodifluoromethane	1	5	ND	ND	ND		
Chloromethane	1	5	ND	ND	ND		
Vinyl Chloride	0.5	2	ND	ND	ND		
Bromomethane	1	5	ND	ND	ND		
Chloroethane	1	5	ND	ND	ND		
Trichlorofluoromethane	1	5	ND	ND	ND		
1,1-Dichloroethene	1	5	ND	ND	ND		
Iodomethane	1	5	ND	ND	ND		
Methylene Chloride	2	10	ND	ND	ND		
trans-1,2-Dichloroethene	1	5	ND	ND	ND		
1,1-Dichloroethane	1	5	ND	ND	ND		
2,2-Dichloropropane	1	5	ND	ND	ND		
cis-1,2-Dichloroethene	1	5	ND	ND	ND		
Bromochloromethane	1	5	ND	ND	ND		
Chloroform	1	5	ND	ND	ND		
1,2-Dichloroethane	0.5	5	ND	ND	ND		
1,1,1-Trichloroethane	1	5	ND	ND	ND		
Carbon tetrachloride	0.5	5	ND	ND	ND		
1,1-Dichloropropene	1	5	ND	ND	ND		
Trichloroethene	1	2.5	ND	ND	ND		
1,2-Dichloropropane	1	5	ND	ND	ND		
Bromodichloromethane	1	5	ND	ND	ND		
Dibromomethane	1	5	ND	ND	ND		
Trans-1,3-Dichloropropene	1	5	ND	ND	ND		
cis-1,3-Dichloropropene	1	5	ND	ND	ND		
1,1,2-Trichloroethane	1	5	ND	ND	ND		
1,3-Dichloropropane	0.5	5	ND	ND	ND		
Dibromochloromethane	1	5	ND	ND	ND		
2-Chloroethylvinyl ether	1	5	ND	ND	ND		
Bromoform	1	5	ND	ND	ND		
Isopropylbenzene	1	5	ND	ND	ND		
Bromobenzene	1	5	ND	ND	ND		
Tetrachloroethene	1	2.5	ND	ND	ND		
Chlorobenzene	1	5	ND	ND	ND		
1,1,1,2-Tetrachloroethane	1	5	ND	ND	ND		
Styrene	1	5	ND	ND	ND		



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM/URS Corporation
Project: 60483930

Lab Job No.: UR604059
Matrix: Water

Date Reported: 04-22-2016
Date Sampled: 04-12/13-2016

EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: ppb

COMPOUND	MDL	PQL	MB	MW-1	MW-2				
1,1,2,2-Tetrachloroethane	1	5	ND	ND	ND				
1,2,3-Trichloropropane	1	5	ND	ND	ND				
n-Propylbenzene	1	5	ND	ND	ND				
2-Chlorotoluene	1	5	ND	ND	ND				
4-Chlorotoluene	1	5	ND	ND	ND				
1,3,5-Trimethylbenzene	1	5	ND	ND	ND				
tert-Butylbenzene	1	5	ND	ND	ND				
1,2,4-Trimethylbenzene	1	5	ND	ND	ND				
Sec-Butylbenzene	1	5	ND	ND	ND				
1,3-Dichlorobenzene	1	5	ND	ND	ND				
p-Isopropyltoluene	1	5	ND	ND	ND				
1,4-Dichlorobenzene	1	5	ND	ND	ND				
1,2-Dichlorobenzene	1	5	ND	ND	ND				
n-Butylbenzene	1	5	ND	ND	ND				
1,2,4-Trichlorobenzene	1	5	ND	ND	ND				
1,2-Dibromo-3-Chloropropane	1	5	ND	ND	ND				
Hexachlorobutadiene	1	5	ND	ND	ND				
Naphthalene	1	5	ND	ND	ND				
1,2,3-Trichlorobenzene	1	5	ND	ND	ND				
Acetone	25	50	ND	ND	ND				
2-Butanone (MEK)	25	50	ND	ND	ND				
Carbon disulfide	25	50	ND	ND	ND				
4-Methyl-2-pentanone	25	50	ND	ND	ND				
2-Hexanone	25	50	ND	ND	ND				
Vinyl Acetate	10	20	ND	ND	ND				
Ethanol	250	500	ND	ND	ND				
Benzene	0.5	1	ND	ND	ND				
Toluene	0.5	1	ND	ND	ND				
Ethylbenzene	0.5	1	ND	ND	ND				
Total Xylenes	1	2	ND	ND	ND				
MTBE	1	2	ND	ND	ND				
ETBE	1	2	ND	ND	ND				
DIPE	1	2	ND	ND	ND				
TAME	1	2	ND	ND	ND				
t-Butyl Alcohol	10	20	ND	ND	ND				
SURROGATE	Accept Limit%	%RC	%RC	%RC					
Dibromofluoro-methane	79-126	116	118	101					
Toluene-d8	79-121	116	99	102					
Bromofluoro-benzene	71-131	96	87	86					

MDL=Method Detection Limit, PQL=Practical Quantitation Limit; DF=Dilution Factor; MB=Method Blank;ND=Not Detected (below DF × MDL), %RC=Percent Recovery; J=Trace Value, result is below DF × PQL but above DF × MDL; * obtained from a higher dilution analysis.
Note: Surrogate spike concentrations are 25 µg/L for all the compounds.



Alpha Scientific Corporation
Environmental Laboratories

Client: AECOM / URS Corporation
Project: 60483930

Lab Job No.: UR604059
Matrix: Soil

Date Reported: 04-22-2016
Date Sampled: 04-13-2016

EPA 8270C (Semi-VOCs by GC/MS, Page 1 of 2)
Reporting Unit: mg/kg (ppm)

DATE EXTRACTED			04-14-16	04-14-16	04-14-16	04-14-16	04-14-16
DATE ANALYZED			04-15-16	04-15-16	04-15-16	04-15-16	04-15-16
EXTRACTION METHOD			3550B	3550B	3550B	3550B	3550B
DILUTION FACTOR			1	1	1	1	1
LAB SAMPLE I.D.			MB	UR604059-13	UR604059-13 Dup	UR604059-14	UR604059-15
CLIENT SAMPLE I.D.				SP-1-7.0'	SP-1-7.0' DUP	SP-1-10.0'	SP-2-7.0'
COMPOUND	MDL	PQL					
Phenol	0.22	0.33	ND	ND	ND	ND	ND
Bis(2-chloroethyl) ether	0.22	0.33	ND	ND	ND	ND	ND
2-Chlorophenol	0.22	0.33	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.22	0.33	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.22	0.33	ND	ND	ND	ND	ND
Benzyl alcohol	0.44	0.66	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.22	0.33	ND	ND	ND	ND	ND
2-Methylphenol (o-cresol)	0.22	0.33	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	0.22	0.33	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine	0.22	0.33	ND	ND	ND	ND	ND
4-Methylphenol (p-cresol)	0.22	0.33	ND	ND	ND	ND	ND
Hexachloroethane	0.22	0.33	ND	ND	ND	ND	ND
Nitrobenzene	0.22	0.33	ND	ND	ND	ND	ND
Isophorone	0.22	0.33	ND	ND	ND	ND	ND
2-Nitrophenol	0.22	0.33	ND	ND	ND	ND	ND
2,4-Dimethylphenol	0.22	0.33	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	0.22	0.33	ND	ND	ND	ND	ND
2,4-Dichlorophenol	0.22	0.33	ND	ND	ND	ND	ND
Benzoic acid	1.11	1.65	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.22	0.33	ND	ND	ND	ND	ND
Naphthalene	0.22	0.33	ND	ND	ND	ND	ND
4-Chloroaniline	0.44	0.66	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.22	0.33	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	0.44	0.66	ND	ND	ND	ND	ND
2-Methylnaphthalene	0.22	0.33	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	0.44	0.66	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	0.22	0.33	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	0.34	0.5	ND	ND	ND	ND	ND
2-Chloronaphthalene	0.22	0.33	ND	ND	ND	ND	ND
2-Nitroaniline	1.11	1.65	ND	ND	ND	ND	ND
Dimethylphthalate	0.22	0.33	ND	ND	ND	ND	ND
Acenaphthylene	0.22	0.33	ND	ND	ND	ND	ND



Alpha Scientific Corporation
Environmental Laboratories

Client: AECOM / URS Corporation
Project: 60483930

Lab Job No.: UR604059
Matrix: Soil

Date Reported: 04-22-2016
Date Sampled: 04-13-2016

EPA 8270C (Semi-VOCs by GC/MS, Page 2 of 2)
Reporting Unit: mg/kg(ppm)

COMPOUND	MDL	PQL	MB	SP-1-7.0'	SP-1-7.0' DUP	SP-1-10.0'	SP-2-7.0'
2,6-Dinitrotoluene	0.22	0.33	ND	ND	ND	ND	ND
3-Nitroaniline	1.11	1.65	ND	ND	ND	ND	ND
Acenaphthene	0.22	0.33	ND	ND	ND	ND	ND
2,4-Dinitrophenol	1.11	1.65	ND	ND	ND	ND	ND
Dibenzofuran	0.22	0.33	ND	ND	ND	ND	ND
4-Nitrophenol	1.11	1.65	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	0.22	0.33	ND	ND	ND	ND	ND
Fluorene	0.22	0.33	ND	ND	ND	ND	ND
Diethylphthalate	0.22	0.33	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	0.22	0.33	ND	ND	ND	ND	ND
4-Nitroaniline	1.11	1.65	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	0.22	0.33	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	1.11	1.65	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	0.22	0.33	ND	ND	ND	ND	ND
4-Bromophenyl- phenyl ether	0.22	0.33	ND	ND	ND	ND	ND
Hexachlorobenzene	0.22	0.33	ND	ND	ND	ND	ND
Pentachlorophenol	1.11	1.65	ND	ND	ND	ND	ND
Phenanthrene	0.22	0.33	ND	ND	ND	ND	ND
Anthracene	0.22	0.33	ND	ND	ND	ND	ND
Di-n-butylphthalate	0.22	0.33	ND	ND	ND	ND	ND
Fluoranthene	0.22	0.33	ND	ND	ND	ND	ND
Pyrene	0.22	0.33	ND	ND	ND	ND	ND
Butyl benzylphthalate	0.22	0.33	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.22	0.33	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	0.44	0.66	ND	ND	ND	ND	ND
Chrysene	0.22	0.33	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)phthalate	0.22	0.33	ND	ND	ND	ND	ND
Di-n-octylphthalate	0.22	0.33	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.22	0.33	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.22	0.33	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.22	0.33	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.22	0.33	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	0.22	0.33	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.22	0.33	ND	ND	ND	ND	ND

MB=Method Blank; MDL=Method Detection Limit; PQL=Practical Quantitation Limit; ND=Not Detected (below DF × MDL). * Result from a higher dilution analysis. J=Result is between DF × MDL & DF × PQL.



Alpha Scientific Corporation
Environmental Laboratories

Client: AECOM / URS Corporation
Project: 60483930

Lab Job No.: UR604059
Matrix: Soil

Date Reported: 04-22-2016
Date Sampled: 04-13-2016

EPA 8270C (Semi-VOCs by GC/MS, Page 1 of 2)
Reporting Unit: mg/kg (ppm)

DATE EXTRACTED			04-14-16	04-14-16	04-14-16	04-14-16
DATE ANALYZED			04-15-16	04-15-16	04-15-16	04-15-16
EXTRACTION METHOD			3550B	3550B	3550B	3550B
DILUTION FACTOR			1	1	1	1
LAB SAMPLE I.D.			MB	UR604059-16	UR604059-17	UR604059-18
CLIENT SAMPLE I.D.				SP-2-10.0'	SP-3-7.0'	SP-3-10.0'
COMPOUND	MDL	PQL				
Phenol	0.22	0.33	ND	ND	ND	ND
Bis(2-chloroethyl) ether	0.22	0.33	ND	ND	ND	ND
2-Chlorophenol	0.22	0.33	ND	ND	ND	ND
1,3-Dichlorobenzene	0.22	0.33	ND	ND	ND	ND
1,4-Dichlorobenzene	0.22	0.33	ND	ND	ND	ND
Benzyl alcohol	0.44	0.66	ND	ND	ND	ND
1,2-Dichlorobenzene	0.22	0.33	ND	ND	ND	ND
2-Methylphenol (o-cresol)	0.22	0.33	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	0.22	0.33	ND	ND	ND	ND
N-Nitrosodi-n-propylamine	0.22	0.33	ND	ND	ND	ND
4-Methylphenol (p-cresol)	0.22	0.33	ND	ND	ND	ND
Hexachloroethane	0.22	0.33	ND	ND	ND	ND
Nitrobenzene	0.22	0.33	ND	ND	ND	ND
Isophorone	0.22	0.33	ND	ND	ND	ND
2-Nitrophenol	0.22	0.33	ND	ND	ND	ND
2,4-Dimethylphenol	0.22	0.33	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	0.22	0.33	ND	ND	ND	ND
2,4-Dichlorophenol	0.22	0.33	ND	ND	ND	ND
Benzoic acid	1.11	1.65	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.22	0.33	ND	ND	ND	ND
Naphthalene	0.22	0.33	ND	ND	ND	ND
4-Chloroaniline	0.44	0.66	ND	ND	ND	ND
Hexachlorobutadiene	0.22	0.33	ND	ND	ND	ND
4-Chloro-3-methylphenol	0.44	0.66	ND	ND	ND	ND
2-Methylnaphthalene	0.22	0.33	ND	ND	ND	ND
Hexachlorocyclopentadiene	0.44	0.66	ND	ND	ND	ND
2,4,6-Trichlorophenol	0.22	0.33	ND	ND	ND	ND
2,4,5-Trichlorophenol	0.34	0.5	ND	ND	ND	ND
2-Chloronaphthalene	0.22	0.33	ND	ND	ND	ND
2-Nitroaniline	1.11	1.65	ND	ND	ND	ND
Dimethylphthalate	0.22	0.33	ND	ND	ND	ND
Acenaphthylene	0.22	0.33	ND	ND	ND	ND



Alpha Scientific Corporation
Environmental Laboratories

Client: AECOM / URS Corporation
Project: 60483930

Lab Job No.: UR604059
Matrix: Soil

Date Reported: 04-22-2016
Date Sampled: 04-13-2016

EPA 8270C (Semi-VOCs by GC/MS, Page 2 of 2)
Reporting Unit: mg/kg(ppm)

COMPOUND	MDL	PQL	MB	SP-2-10.0'	SP-3-7.0'	SP-3-10.0'	
2,6-Dinitrotoluene	0.22	0.33	ND	ND	ND	ND	
3-Nitroaniline	1.11	1.65	ND	ND	ND	ND	
Acenaphthene	0.22	0.33	ND	ND	ND	ND	
2,4-Dinitrophenol	1.11	1.65	ND	ND	ND	ND	
Dibenzofuran	0.22	0.33	ND	ND	ND	ND	
4-Nitrophenol	1.11	1.65	ND	ND	ND	ND	
2,4-Dinitrotoluene	0.22	0.33	ND	ND	ND	ND	
Fluorene	0.22	0.33	ND	ND	ND	ND	
Diethylphthalate	0.22	0.33	ND	ND	ND	ND	
4-Chlorophenyl phenyl ether	0.22	0.33	ND	ND	ND	ND	
4-Nitroaniline	1.11	1.65	ND	ND	ND	ND	
1,2-Diphenylhydrazine	0.22	0.33	ND	ND	ND	ND	
4,6-Dinitro-2-methylphenol	1.11	1.65	ND	ND	ND	ND	
N-Nitrosodiphenylamine	0.22	0.33	ND	ND	ND	ND	
4-Bromophenyl- phenyl ether	0.22	0.33	ND	ND	ND	ND	
Hexachlorobenzene	0.22	0.33	ND	ND	ND	ND	
Pentachlorophenol	1.11	1.65	ND	ND	ND	ND	
Phenanthrene	0.22	0.33	ND	ND	ND	ND	
Anthracene	0.22	0.33	ND	ND	ND	ND	
Di-n-butylphthalate	0.22	0.33	ND	ND	ND	ND	
Fluoranthene	0.22	0.33	ND	ND	ND	ND	
Pyrene	0.22	0.33	ND	ND	ND	ND	
Butyl benzylphthalate	0.22	0.33	ND	ND	ND	ND	
Benzo(a)anthracene	0.22	0.33	ND	ND	ND	ND	
3,3'-Dichlorobenzidine	0.44	0.66	ND	ND	ND	ND	
Chrysene	0.22	0.33	ND	ND	ND	ND	
Bis(2-Ethylhexyl)phthalate	0.22	0.33	ND	ND	ND	ND	
Di-n-octylphthalate	0.22	0.33	ND	ND	ND	ND	
Benzo(b)fluoranthene	0.22	0.33	ND	ND	ND	ND	
Benzo(k)fluoranthene	0.22	0.33	ND	ND	ND	ND	
Benzo(a)pyrene	0.22	0.33	ND	ND	ND	ND	
Indeno(1,2,3-cd)pyrene	0.22	0.33	ND	ND	ND	ND	
Dibenz(a,h)anthracene	0.22	0.33	ND	ND	ND	ND	
Benzo(g,h,i)perylene	0.22	0.33	ND	ND	ND	ND	

MB=Method Blank; MDL=Method Detection Limit; PQL=Practical Quantitation Limit; ND=Not Detected (below DF × MDL). * Result from a higher dilution analysis. J=Result is between DF × MDL & DF × PQL.



Alpha Scientific Corporation
Environmental Laboratories

Client: AECOM / URS Corporation
Project: 60483930

Lab Job No.: UR604059
Matrix: Water

Date Reported: 04-22-2016
Date Sampled: 04-13-2016

EPA 8270C (Semi-VOC's by GC/MS, Page 1 of 2) Reporting Unit: µg/L (ppb)

DATE EXTRACTED			04-15	04-15-16				
DATE ANALYZED			04-16	04-16-16				
EXTRACTION METHOD			3510C	3510C				
DILUTION FACTOR (DF)			1	1				
LAB SAMPLE I.D.			MB	UR604059-77				
CLIENT SAMPLE I.D.				MW-2				
COMPOUND	MDL	PQL						
N-Nitrosodimethylamine	5	10	ND	ND				
Phenol	5	10	ND	ND				
Bis(2-chloroethyl) ether	5	10	ND	ND				
2-Chlorophenol	5	10	ND	ND				
1,3-Dichlorobenzene	5	10	ND	ND				
1,4-Dichlorobenzene	5	10	ND	ND				
Benzyl alcohol	5	10	ND	ND				
1,2-Dichlorobenzene	5	10	ND	ND				
2-Methylphenol (o-cresol)	5	10	ND	ND				
Bis(2-chloroisopropyl)ether	5	10	ND	ND				
N-Nitrosodi-n-propylamine	5	10	ND	ND				
4-Methylphenol (p-cresol)	5	10	ND	ND				
Hexachloroethane	5	10	ND	ND				
Nitrobenzene	5	10	ND	ND				
Isophorone	5	10	ND	ND				
2-Nitrophenol	5	10	ND	ND				
2,4-Dimethylphenol	5	10	ND	ND				
Bis(2-chloroethoxy)methane	5	10	ND	ND				
2,4-Dichlorophenol	5	10	ND	ND				
Benzoic acid	5	10	ND	ND				
1,2,4-Trichlorobenzene	5	10	ND	ND				
Naphthalene	5	10	ND	ND				
4-Chloroaniline	5	10	ND	ND				
Hexachlorobutadiene	5	10	ND	ND				
4-Chloro-3-methylphenol	5	10	ND	ND				
2-Methylnaphthalene	5	10	ND	ND				
Hexachlorocyclopentadiene	5	10	ND	ND				
2,4,6-Trichlorophenol	5	10	ND	ND				
2,4,5-Trichlorophenol	5	10	ND	ND				
2-Chloronaphthalene	5	10	ND	ND				
2-Nitroaniline	5	10	ND	ND				
Dimethylphthalate	5	10	ND	ND				



Alpha Scientific Corporation
Environmental Laboratories

Client: AECOM / URS Corporation
Project: 60483930

Lab Job No.: UR604059
Matrix: Water

Date Reported: 04-22-2016
Date Sampled: 04-13-2016

EPA 8270C (Semi-VOC's by GC/MS, Page 2 of 2) Reporting Unit: µg/L (ppb)

COMPOUND	MDL	PQL	MB	MW-2				
Acenaphthylene	5	10	ND	ND				
2,6-Dinitrotoluene	5	10	ND	ND				
3-Nitroaniline	5	10	ND	ND				
Acenaphthene	5	10	ND	ND				
2,4-Dinitrophenol	5	10	ND	ND				
Dibenzofuran	5	10	ND	ND				
4-Nitrophenol	5	10	ND	ND				
2,4-Dinitrotoluene	5	10	ND	ND				
Fluorene	5	10	ND	ND				
Diethylphthalate	5	10	ND	ND				
4-Chlorophenyl phenyl ether	5	10	ND	ND				
4-Nitroaniline	5	10	ND	ND				
1,2-Diphenylhydrazine	5	10	ND	ND				
4,6-Dinitro-2-methylphenol	5	10	ND	ND				
N-Nitrosodiphenylamine	5	10	ND	ND				
4-Bromophenyl-phenyl ether	5	10	ND	ND				
Hexachlorobenzene	5	10	ND	ND				
Pentachlorophenol	5	10	ND	ND				
Benzidine	5	10	ND	ND				
Phenanthrene	5	10	ND	ND				
Anthracene	5	10	ND	ND				
Di-n-butylphthalate	5	10	ND	ND				
Fluoranthene	5	10	ND	ND				
Pyrene	5	10	ND	ND				
Butyl benzylphthalate	5	10	ND	ND				
Benzo(a)anthracene	5	10	ND	ND				
3,3'-Dichlorobenzidine	5	10	ND	ND				
Chrysene	5	10	ND	ND				
Bis(2-Ethylhexyl)phthalate	5	10	ND	ND				
Di-n-octylphthalate	5	10	ND	ND				
Benzo(b)fluoranthene	5	10	ND	ND				
Benzo(k)fluoranthene	5	10	ND	ND				
Benzo(a)pyrene	5	10	ND	ND				
Indeno(1,2,3-cd)pyrene	5	10	ND	ND				
Dibenz(a,h)anthracene	5	10	ND	ND				
Benzo(g,h,i)perylene	5	10	ND	ND				

MB=Method Blank; MDL=Method Detection Limit; PQL=Practical Quantitation Limit; ND=Not Detected (below DF × MDL). * Result from a higher dilution analysis.



Alpha Scientific Corporation
Environmental Laboratories

Client: AECOM / URS Corporation
Project: 60483930
Project Site: Church and Peach PEA
Matrix: Soil
Extraction Method: EPA 3550B
Batch No.: 0418-MS1

Lab Job No.: UR604059
Date Sampled: 04-13-2016
Date Received: 04-14-2016
Date Extracted: 04-15-2016
Date Analyzed: 04-18-2016
Date Reported: 04-22-2016

EPA 6010B (As, TTLC)
Reporting Unit: mg/kg (ppm)

Sample ID	Lab ID	Arsenic (As)	Reporting Limit
MB		ND	0.5
B-1-0.5	UR604059-9	0.71	0.5
B-1-0.5 DUP	UR604059-9	0.65	0.5
B-2-0.5	UR604059-10	0.68	0.5
B-3-0.5	UR604059-11	1.3	0.5
B-4-0.5	UR604059-12	1.0	0.5
S-65Q-0.5'	UR604059-19	1.4	0.5
S-27G-0.5'	UR604059-25	0.65	0.5
ID-1-0.5', ID-2-0.5' ID-3-0.5'	UR604059-27,28,29	ND	0.5
NS-4-0.5', NS-4-2.5'	UR604059-32,33	1.1	0.5
S-32H-0.5'	UR604059-37	0.87	0.5
S-49M-0.5'	UR604059-38	0.75	0.5
S-59O-0.5'	UR604059-44	1.3	0.5
S-64P-0.5'	UR604059-49	1.3	0.5
NS-1-0.5', NS-1-2.5'	UR604059-62,63	0.70	0.5
NS-1-0.5', NS-1-2.5' Dup	UR604059-62,63 Dup	0.98	0.5
NS-2-0.5' NS-2-2.5'	UR604059-64,65	1.1	0.5

ND: Not Detected (at the specified limit).



Alpha Scientific Corporation
Environmental Laboratories

Client: AECOM / URS Corporation
Project: 60483930
Project Site: Church and Peach PEA
Matrix: Soil
Extraction Method: EPA 3550B
Batch No.: 0418-MS2

Lab Job No.: UR604059
Date Sampled: 04-13-2016
Date Received: 04-14-2016
Date Extracted: 04-15-2016
Date Analyzed: 04-18-2016
Date Reported: 04-22-2016

EPA 6010B (As, TTLC)
Reporting Unit: mg/kg (ppm)

Sample ID	Lab ID	Arsenic (As)	Reporting Limit
MB		ND	0.5
NS-3-0.5', NS-3-2.5'	UR604059-66,67	1.5	0.5
EW-1-0.5'	UR604059-68	ND	0.5
EW-1-2.0'	UR604059-69	ND	0.5
EW-2-0.5'	UR604059-70	ND	0.5
EW-2-2.0'	UR604059-71	ND	0.5
EW-3-0.5'	UR604059-72	ND	0.5
EW-3-2.0'	UR604059-73	ND	0.5
EW-4-0.5'	UR604059-74	ND	0.5
EW-4-2.0'	UR604059-75	ND	0.5

ND: Not Detected (at the specified limit).



Alpha Scientific Corporation
Environmental Laboratories

Client: AECOM / URS Corporation
Project: 60483930
Project Site: Church and Peach PEA
Matrix: Soil
Extraction Method: EPA 3050B
Batch No.: 0418-MS1/0418-MS2

Lab Job No.: UR604059
Date Sampled: 04-13-2016
Date Received: 04-14-2016
Date Extracted: 04-15-2016
Date Analyzed: 04-18-2016
Date Reported: 04-22-2016

EPA 6010B (Pb, TTLC)
Reporting Unit: mg/kg (ppm)

Sample ID	Lab ID	Lead (Pb)	Reporting Limit
MB		ND	2
B-1-0.5'	UR604059-9	2.0	2
B-1-0.5' DUP	UR604059-9 DUP	2.2	2
B-2-0.5'	UR604059-10	1.6	2
B-3-0.5'	UR604059-11	3.3	2
B-4-0.5'	UR604059-12	2.0	2
NS-4-0.5', NS-4-2.5'	UR604059-32,33	10.0	2
FH-1W-0.5'	UR604059-50	11.7	2
FH-2W-0.5'	UR604059-51	59.4	2
FH-2W-0.5' DUP	UR604059-51 DUP	40.9	2
FH-3W-0.5'	UR604059-52	16.3	2
FH-1W-2.5'	UR604059-53	7.4	2
FH-2W-2.5'	UR604059-54	7.8	2
FH-3W-2.5'	UR604059-55	3.5	2
FH-4X-0.5'	UR604059-56	113	2
FH-5X-0.5'	UR604059-57	27.2	2
FH-6X-0.5'	UR604059-58	35.6	2
FH-4X-2.5'	UR604059-59	2.2	2
FH-5X-2.5'	UR604059-60	3.0	2
FH-6X-2.5'	UR604059-61	2.7	2

ND: Not Detected (at the specified limit).



Alpha Scientific Corporation
Environmental Laboratories

Client: AECOM / URS Corporation
Project: 60483930
Project Site: Church and Peach PEA
Matrix: Soil
Extraction Method: EPA 3050B
Batch No.: 0418-MS2

Lab Job No.: UR604059
Date Sampled: 04-13-2016
Date Received: 04-14-2016
Date Extracted: 04-15-2016
Date Analyzed: 04-18-2016
Date Reported: 04-22-2016

EPA 6010B (Pb, TTLC)
Reporting Unit: mg/kg (ppm)

Sample ID	Lab ID	Lead (Pb)	Reporting Limit
MB		ND	2
NS-1-0.5', NS-1-2.5'	UR604059-62,63	4.1	2
NS-1-0.5', NS-1-2.5'	UR604059-62,63 DUP	5.0	2
NS-2-0.5' NS-2-2.5'	UR604059-64,65	11.7	2
NS-3-0.5' NS-3-2.5'	UR604059-66,67	16.0	2

ND: Not Detected (at the specified limit).



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: AD08-PS1

Lab Job No.: UR604059
 Date Sampled: 04-13-2016
 Date Received: 04-14-2016
 Date Extracted: 04-14-2016
 Date Analyzed: 04-14-2016
 Date Reported: 04-22-2016

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: $\mu\text{g}/\text{kg}$ (ppb)

LAB SAMPLE I.D.			MB	UR604059-1,2,3,4	UR604059-5,6,7,8	UR604059-9	UR604059-9	UR604059-10
CLIENT SAMPLE I.D.				WS-1-0.5' WS-2-0.5' WS-3-0.5' WS-4-0.5'	WS-5-0.5' WS-6-0.5' WS-7-0.5' WS-8-0.5'	B-1-0.5	B-1-0.5 DUP	B-2-0.5
DILUTION FACTOR			1	1	1	1	1	1
COMPOUND	MDL	PQL						
Alpha-BHC	3	5	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	3	5	ND	ND	ND	ND	ND	ND
Heptachlor	3	5	ND	ND	ND	ND	ND	ND
Aldrin	3	5	ND	ND	ND	ND	ND	ND
Beta-BHC	3	5	ND	ND	ND	ND	ND	ND
Delta-BHC	3	5	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	3	5	ND	ND	ND	ND	ND	ND
Endosulfan I	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDE	3	5	ND	19.4	ND	63.9	15.2	17.8
Dieldrin	3	5	ND	ND	ND	ND	ND	ND
Endrin	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDD	3	5	ND	ND	ND	ND	ND	ND
Endosulfan II	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDT	3	5	ND	4.1J	ND	215	ND	ND
Endrin Aldehyde	3	5	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	3	5	ND	ND	ND	ND	ND	ND
Methoxychlor	3	5	ND	ND	ND	ND	ND	ND
Alpha-Chlordane	3	5	ND	ND	ND	ND	ND	ND
Gamma-Chlordane	3	5	ND	ND	ND	ND	ND	ND
Total Chlordane	15	25	ND	ND	ND	ND	ND	ND
Toxaphene	60	100	ND	ND	ND	ND	ND	ND
Endrin Ketone	30	50	ND	ND	ND	ND	ND	ND
Hexachlorobenzene(HCB)	200	300	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	300	500	ND	ND	ND	ND	ND	ND
SURROGATE	Accept Limit%	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Surrogate Standard	60-140	87	94	85	89	92	93	

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
 ND=Not Detected (below DF × MDL); %RC=Percent Recovery.

* = Obtained from a higher dilution analysis.

J = Trace value. Result is between DF × MDL and DF × PQL.

Note: Total Chlordane is quantified based on Technical Chlordane Standard.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: AD08-PS1

Lab Job No.: UR604059
 Date Sampled: 04-13-2016
 Date Received: 04-14-2016
 Date Extracted: 04-14-2016
 Date Analyzed: 04-14-2016
 Date Reported: 04-22-2016

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: $\mu\text{g}/\text{kg}$ (ppb)

LAB SAMPLE I.D.			MB	UR604059-11	UR604059-12	UR604059-13	UR604059-13	UR604059-14
CLIENT SAMPLE I.D.				B-3-0.5	B-4-0.5	SP-1-7.0'	SP-1-7.0' DUP	SP-1-10.0'
DILUTION FACTOR			1	1	1	1	1	1
COMPOUND	MDL	PQL						
Alpha-BHC	3	5	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	3	5	ND	ND	ND	ND	ND	ND
Heptachlor	3	5	ND	ND	ND	ND	ND	ND
Aldrin	3	5	ND	ND	ND	ND	ND	ND
Beta-BHC	3	5	ND	ND	ND	ND	ND	ND
Delta-BHC	3	5	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	3	5	ND	ND	ND	ND	ND	ND
Endosulfan I	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDE	3	5	ND	155	69.1	ND	ND	ND
Dieldrin	3	5	ND	ND	ND	ND	ND	ND
Endrin	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDD	3	5	ND	ND	ND	ND	ND	ND
Endosulfan II	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDT	3	5	ND	5.0	ND	ND	ND	ND
Endrin Aldehyde	3	5	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	3	5	ND	ND	ND	ND	ND	ND
Methoxychlor	3	5	ND	ND	ND	ND	ND	ND
Alpha-Chlordane	3	5	ND	15.5	20.5	ND	ND	ND
Gamma-Chlordane	3	5	ND	10.7	16.1	ND	ND	ND
Total Chlordane	15	25	ND	140	147	ND	ND	ND
Toxaphene	60	100	ND	ND	ND	ND	ND	ND
Endrin Ketone	30	50	ND	ND	ND	ND	ND	ND
Hexachlorobenzene(HCB)	200	300	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	300	500	ND	ND	ND	ND	ND	ND
SURROGATE	Accept Limit%	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Surrogate Standard	60-140	87	90	97	89	94	96	

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
 ND=Not Detected (below DF × MDL); %RC=Percent Recovery.

* = Obtained from a higher dilution analysis.

J=Trace value. Result is between DF × MDL and DF × PQL.

Note: Total Chlordane is quantified based on Technical Chlordane Standard.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: AD18-PS1

Lab Job No.: UR604059
 Date Sampled: 04-13-2016
 Date Received: 04-14-2016
 Date Extracted: 04-15-2016
 Date Analyzed: 04-19-2016
 Date Reported: 04-22-2016

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (ppb)

LAB SAMPLE I.D.			MB	UR604059-15	UR604059-16	UR604059-17	UR604059-18	UR604059-19,20,21,22
CLIENT SAMPLE I.D.				SP-2-7.0'	SP-2-10.0'	SP-3-7.0'	SP-3-10.0'	S-65Q-0.5' S-66Q-0.5' S-67Q-0.5' S-68Q-0.5'
DILUTION FACTOR			1	1	1	1	1	1
COMPOUND	MDL	PQL						
Alpha-BHC	3	5	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	3	5	ND	ND	ND	ND	ND	ND
Heptachlor	3	5	ND	ND	ND	ND	ND	ND
Aldrin	3	5	ND	ND	ND	ND	ND	ND
Beta-BHC	3	5	ND	ND	ND	ND	ND	ND
Delta-BHC	3	5	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	3	5	ND	ND	ND	ND	ND	ND
Endosulfan I	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDE	3	5	ND	ND	ND	ND	ND	23.8
Dieldrin	3	5	ND	ND	ND	ND	ND	ND
Endrin	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDD	3	5	ND	ND	ND	ND	ND	ND
Endosulfan II	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDT	3	5	ND	ND	ND	ND	ND	ND
Endrin Aldehyde	3	5	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	3	5	ND	ND	ND	ND	ND	ND
Methoxychlor	3	5	ND	ND	ND	ND	ND	ND
Alpha-Chlordane	3	5	ND	ND	ND	ND	ND	ND
Gamma-Chlordane	3	5	ND	ND	ND	ND	ND	ND
Total Chlordane	15	25	ND	ND	ND	ND	ND	ND
Toxaphene	60	100	ND	ND	ND	ND	ND	ND
Endrin Ketone	30	50	ND	ND	ND	ND	ND	ND
Hexachlorobenzene(HCB)	200	300	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	300	500	ND	ND	ND	ND	ND	ND
SURROGATE	Accept Limit%	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Surrogate Standard	60-140	87	90	89	83	90	95	

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;

ND=Not Detected (below DF × MDL); %RC=Percent Recovery.

* = Obtained from a higher dilution analysis.

J=Trace value. Result is between DF × MDL and DF × PQL.

Note: Total Chlordane is quantified based on Technical Chlordane Standard.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: AD18-PS1/AD18-PS2

Lab Job No.: UR604059
 Date Sampled: 04-13-2016
 Date Received: 04-14-2016
 Date Extracted: 04-15-2016
 Date Analyzed: 04-19-2016
 Date Reported: 04-22-2016

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: $\mu\text{g}/\text{kg}$ (ppb)

LAB SAMPLE I.D.			MB	UR604059- 23,24,25,26	UR604059- 27,28,29	UR604059- 32,33	UR604059- 34,35,36,37	
CLIENT SAMPLE I.D.				S-25G-0.5' S-26G-0.5' S-27G-0.5' S-28G-0.5'	ID-1-0.5' ID-2-0.5' ID-3-0.5'	NS-4-0.5' NS-4-2.5'	S-29H-0.5' S-30H-0.5' S-31H-0.5' S-32H-0.5'	
DILUTION FACTOR			1	1	1	1	1	
COMPOUND	MDL	PQL						
Alpha-BHC	3	5	ND	ND	ND	ND	ND	
Gamma-BHC (Lindane)	3	5	ND	ND	ND	ND	ND	
Heptachlor	3	5	ND	ND	ND	ND	ND	
Aldrin	3	5	ND	ND	ND	ND	ND	
Beta-BHC	3	5	ND	ND	ND	ND	ND	
Delta-BHC	3	5	ND	ND	ND	ND	ND	
Heptachlor Epoxide	3	5	ND	ND	ND	ND	ND	
Endosulfan I	3	5	ND	ND	ND	ND	ND	
4,4'-DDE	3	5	ND	7.2	10.1	59.0	40.2	
Dieldrin	3	5	ND	ND	ND	ND	ND	
Endrin	3	5	ND	ND	ND	ND	ND	
4,4'-DDD	3	5	ND	ND	ND	ND	ND	
Endosulfan II	3	5	ND	ND	ND	ND	ND	
4,4'-DDT	3	5	ND	ND	ND	8.2	3.0J	
Endrin Aldehyde	3	5	ND	ND	ND	ND	ND	
Endosulfan Sulfate	3	5	ND	ND	ND	ND	ND	
Methoxychlor	3	5	ND	ND	ND	ND	ND	
Alpha-Chlordane	3	5	ND	ND	ND	5.6	ND	
Gamma-Chlordane	3	5	ND	ND	ND	3.1J	ND	
Total Chlordane	15	25	ND	ND	ND	19.5J	ND	
Toxaphene	60	100	ND	ND	ND	ND	ND	
Endrin Ketone	30	50	ND	ND	ND	ND	ND	
Hexachlorobenzene(HCB)	200	300	ND	ND	ND	ND	ND	
Hexachlorocyclopentadiene	300	500	ND	ND	ND	ND	ND	
SURROGATE	Accept Limit%	%RC	%RC	%RC	%RC	%RC	%RC	
Surrogate Standard	60-140	87	91	82	79	89		

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
 ND=Not Detected (below DF × MDL); %RC=Percent Recovery.

* = Obtained from a higher dilution analysis.

J=Trace value. Result is between DF × MDL and DF × PQL.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: AD18-PS2/AD19-PS2

Lab Job No.: UR604059
 Date Sampled: 04-13-2016
 Date Received: 04-14-2016
 Date Extracted: 04-15-2016
 Date Analyzed: 04-19/20-2016
 Date Reported: 04-22-2016

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (ppb)

LAB SAMPLE I.D.	MB	UR604059-38,39,40,41	UR604059-42,43,44,45	UR604059-46,47,48,49	UR604059-50,51,52	UR604059-50,51,52 Dup		
CLIENT SAMPLE I.D.		S-49M-0.5' S-50M-0.5' S-51M-0.5' S-52M-0.5'	S-57O-0.5' S-58O-0.5' S-59O-0.5' S-60O-0.5'	S-61P-0.5' S-62P-0.5' S-63P-0.5' S-64P-0.5'	FH-1W-0.5' FH-2W-0.5' FH-3W-0.5'	FH-1W-0.5' FH-2W-0.5' FH-3W-0.5' Dup		
DILUTION FACTOR		1	1	1	1	1		
COMPOUND	MDL	PQL						
Alpha-BHC	3	5	ND	ND	ND	ND	ND	
Gamma-BHC (Lindane)	3	5	ND	ND	ND	ND	ND	
Heptachlor	3	5	ND	ND	ND	ND	ND	
Aldrin	3	5	ND	ND	ND	ND	ND	
Beta-BHC	3	5	ND	ND	ND	ND	ND	
Delta-BHC	3	5	ND	ND	ND	ND	ND	
Heptachlor Epoxide	3	5	ND	ND	ND	ND	ND	
Endosulfan I	3	5	ND	ND	ND	ND	ND	
4,4'-DDE	3	5	ND	25.6	35.6	33.7	151	126
Dieldrin	3	5	ND	ND	ND	ND	ND	ND
Endrin	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDD	3	5	ND	ND	ND	ND	ND	ND
Endosulfan II	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDT	3	5	ND	ND	ND	5.9	73.7	62.8
Endrin Aldehyde	3	5	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	3	5	ND	ND	ND	ND	ND	ND
Methoxychlor	3	5	ND	ND	ND	ND	ND	ND
Alpha-Chlordane	3	5	ND	ND	ND	ND	ND	ND
Gamma-Chlordane	3	5	ND	ND	ND	ND	3.2J	5.5
Total Chlordane	15	25	ND	ND	ND	ND	21.5J	22.2J
Toxaphene	60	100	ND	ND	ND	ND	ND	ND
Endrin Ketone	30	50	ND	ND	ND	ND	ND	ND
Hexachlorobenzene(HCB)	200	300	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	300	500	ND	ND	ND	ND	ND	ND
SURROGATE	Accept Limit%	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Surrogate Standard	60-140	87	89	90	98	90	90	89

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
 ND=Not Detected (below DF × MDL); %RC=Percent Recovery.

* = Obtained from a higher dilution analysis.

J=Trace value. Result is between DF × MDL and DF × PQL.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: AD19-PS2

Lab Job No.: UR604059
 Date Sampled: 04-13-2016
 Date Received: 04-14-2016
 Date Extracted: 04-15-2016
 Date Analyzed: 04-20-2016
 Date Reported: 04-22-2016

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (ppb)

LAB SAMPLE I.D.	MB	UR604059-53,54,55	UR604059-56,57,58	UR604059-59,60,61	UR604059-62,63	UR604059-62,63 Dup		
CLIENT SAMPLE I.D.		FH-1W-2.5' FH-2W-2.5' FH-3W-2.5'	FH-4X-0.5' FH-5X-0.5' FH-6X-0.5'	FH-4X-2.5' FH-5X-2.5' FH-6X-2.5'	NS-1-0.5' NS-1-2.5'	NS-1-0.5' NS-1-2.5' Dup		
DILUTION FACTOR	1	1	1	1	1	1		
COMPOUND	MDL	PQL						
Alpha-BHC	3	5	ND	ND	ND	ND	ND	
Gamma-BHC (Lindane)	3	5	ND	ND	ND	ND	ND	
Heptachlor	3	5	ND	ND	ND	ND	ND	
Aldrin	3	5	ND	ND	ND	ND	ND	
Beta-BHC	3	5	ND	ND	ND	ND	ND	
Delta-BHC	3	5	ND	ND	ND	ND	ND	
Heptachlor Epoxide	3	5	ND	ND	ND	ND	ND	
Endosulfan I	3	5	ND	ND	ND	ND	ND	
4,4'-DDE	3	5	ND	ND	169	ND	95	89.6
Dieldrin	3	5	ND	ND	ND	ND	ND	ND
Endrin	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDD	3	5	ND	ND	ND	ND	ND	ND
Endosulfan II	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDT	3	5	ND	ND	33.5	ND	18.0	20.0
Endrin Aldehyde	3	5	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	3	5	ND	ND	ND	ND	ND	ND
Methoxychlor	3	5	ND	ND	ND	ND	ND	ND
Alpha-Chlordane	3	5	ND	ND	5.7	ND	11.9	11.7
Gamma-Chlordane	3	5	ND	ND	4.1J	ND	6.0	6.0
Total Chlordane	15	25	ND	ND	22.6	ND	39.0	38.5
Toxaphene	60	100	ND	ND	ND	ND	ND	ND
Endrin Ketone	30	50	ND	ND	ND	ND	ND	ND
Hexachlorobenzene(HCB)	200	300	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	300	500	ND	ND	ND	ND	ND	ND
SURROGATE	Accept Limit%	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Surrogate Standard	60-140	93	91	95	131	90	90	90

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
 ND=Not Detected (below DF × MDL); %RC=Percent Recovery.
 * = Obtained from a higher dilution analysis.
 J =Trace value. Result is between DF × MDL and DF × PQL.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: AD19-PS2

Lab Job No.: UR604059
 Date Sampled: 04-13-2016
 Date Received: 04-14-2016
 Date Extracted: 04-15-2016
 Date Analyzed: 04-20-2016
 Date Reported: 04-22-2016

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: $\mu\text{g}/\text{kg}$ (ppb)

LAB SAMPLE I.D.			MB	UR604059-64,65	UR604059-66,67	UR604059-68	UR604059-69	UR604059-70
CLIENT SAMPLE I.D.				NS-2-0.5' NS-2-2.5'	NS-3-0.5' NS-3-2.5'	EW-1-0.5'	EW-1-2.0'	EW-2-0.5'
DILUTION FACTOR			1	1	1	1	1	1
COMPOUND	MDL	PQL						
Alpha-BHC	3	5	ND	ND	ND	ND		
Gamma-BHC (Lindane)	3	5	ND	ND	ND	ND	ND	ND
Heptachlor	3	5	ND	ND	ND	ND	ND	ND
Aldrin	3	5	ND	ND	ND	ND	ND	ND
Beta-BHC	3	5	ND	ND	ND	ND	ND	ND
Delta-BHC	3	5	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	3	5	ND	ND	3.3J	ND	ND	ND
Endosulfan I	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDE	3	5	ND	ND	108	66.5	ND	ND
Dieldrin	3	5	ND	ND	ND	ND	ND	ND
Endrin	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDD	3	5	ND	ND	ND	ND	ND	ND
Endosulfan II	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDT	3	5	ND	ND	20.5	57.2	ND	ND
Endrin Aldehyde	3	5	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	3	5	ND	ND	ND	ND	ND	ND
Methoxychlor	3	5	ND	ND	ND	ND	ND	ND
Alpha-Chlordane	3	5	ND	ND	13.8	ND	ND	ND
Gamma-Chlordane	3	5	ND	ND	6.9	ND	ND	ND
Total Chlordane	15	25	ND	ND	45.5	ND	ND	ND
Toxaphene	60	100	ND	ND	ND	ND	ND	ND
Endrin Ketone	30	50	ND	ND	ND	ND	ND	ND
Hexachlorobenzene(HCB)	200	300	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	300	500	ND	ND	ND	ND	ND	ND
SURROGATE	Accept Limit%	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Surrogate Standard	60-140	93	131	74	86	82	87	

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
 ND=Not Detected (below DF × MDL); %RC=Percent Recovery.
 * = Obtained from a higher dilution analysis.
 J=Trace value. Result is between DF × MDL and DF × PQL.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: AD19-PS2/AD21-PS1

Lab Job No.: UR604059
 Date Sampled: 04-13-2016
 Date Received: 04-14-2016
 Date Extracted: 04-15-2016
 Date Analyzed: 04-21-2016
 Date Reported: 04-22-2016

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (ppb)

LAB SAMPLE I.D.			MB	UR604059-71	UR604059-72	UR604059-73	UR604059-74	UR604059-75
CLIENT SAMPLE I.D.				EW-2-2.0'	EW-3-0.5'	EW-3-2.0'	EW-4-0.5'	EW-4-2.0'
DILUTION FACTOR			1	1	1	1	1	1
COMPOUND	MDL	PQL						
Alpha-BHC	3	5	ND	ND	ND	ND		
Gamma-BHC (Lindane)	3	5	ND	ND	ND	ND	ND	ND
Heptachlor	3	5	ND	ND	ND	ND	ND	ND
Aldrin	3	5	ND	ND	ND	ND	ND	ND
Beta-BHC	3	5	ND	ND	ND	ND	ND	ND
Delta-BHC	3	5	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	3	5	ND	ND	ND	ND	ND	ND
Endosulfan I	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDE	3	5	ND	ND	50.2	ND	ND	ND
Dieldrin	3	5	ND	ND	ND	ND	ND	ND
Endrin	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDD	3	5	ND	ND	ND	ND	ND	ND
Endosulfan II	3	5	ND	ND	ND	ND	ND	ND
4,4'-DDT	3	5	ND	ND	29.8	ND	ND	ND
Endrin Aldehyde	3	5	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	3	5	ND	ND	ND	ND	ND	ND
Methoxychlor	3	5	ND	ND	ND	ND	ND	ND
Alpha-Chlordane	3	5	ND	ND	ND	ND	ND	ND
Gamma-Chlordane	3	5	ND	ND	ND	ND	ND	ND
Total Chlordane	15	25	ND	ND	ND	ND	ND	ND
Toxaphene	60	100	ND	ND	ND	ND	ND	ND
Endrin Ketone	30	50	ND	ND	ND	ND	ND	ND
Hexachlorobenzene(HCB)	200	300	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	300	500	ND	ND	ND	ND	ND	ND
SURROGATE	Accept Limit%	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Surrogate Standard	60-140	93	83	85	83	99	86	

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
 ND=Not Detected (below DF × MDL); %RC=Percent Recovery.
 * = Obtained from a higher dilution analysis.
 J =Trace value. Result is between DF × MDL and DF × PQL.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Digestion Method: EPA 3050B
 Batch No. : 0415-MS1

Lab Job No.: UR604059
 Date Sampled: 04-13-2016
 Date Received: 04-14-2016
 Date Digested: 04-14-2016
 Date Analyzed: 04-15-2016
 Date Reported: 04-22-2016

EPA 6010B/7471A for Cam Metals (TTLC)

Reporting Units: mg/kg (ppm)

Element	EPA	Method Blank	UR604059-1,2,3,4	UR604059-5,6,7,8	UR604059-9-13	UR604059-9-13 Dup	UR604059-14	MDL	PQL
	Method		WS-1-0.5' WS-2-0.5' WS-3-0.5' WS-4-0.5'	WS-5-0.5' WS-6-0.5' WS-7-0.5' WS-8-0.5'	SP-1-7.0'	SP-1-7.0' DUP	SP-1-10.0'		
Antimony (Sb)	6010B	ND	ND	ND	ND	ND	ND	1	2
Arsenic (As)	6010B	ND	3.6	0.92	2.0	2.4	0.76	0.3	0.5
Barium (Ba)	6010B	ND	48.9	40.6	53.5	50.2	67.3	1	2
Beryllium (Be)	6010B	ND	ND	ND	ND	ND	ND	1	2
Cadmium (Cd)	6010B	ND	ND	ND	ND	ND	ND	1	2
Chromium (Cr)	6010B	ND	21.8	6.2	13.0	11.5	41.9	1	2
Cobalt (Co)	6010B	ND	8.3	4.2	7.0	6.6	13.4	1	2
Copper (Cu)	6010B	ND	9.0	8.4	9.8	8.7	13.5	1	2
Lead (Pb)	6010B	ND	5.9	3.3	2.4	2.5	1.7J	1	2
Mercury (Hg)	7471A	ND	ND	ND	ND	ND	ND	0.1	0.2
Molybdenum (Mo)	6010B	ND	ND	ND	ND	ND	ND	1	2
Nickel (Ni)	6010B	ND	69.6	11.4	35.1	30.5	111	1	2
Selenium (Se)	6010B	ND	ND	ND	ND	ND	ND	0.3	0.5
Silver (Ag)	6010B	ND	ND	ND	ND	ND	ND	1	2
Thallium (Tl)	6010B	ND	ND	ND	ND	ND	ND	1	2
Vanadium (V)	6010B	ND	35.2	22.1	40.3	36.9	54.2	1	2
Zinc (Zn)	6010B	ND	23.8	14.6	20.7	19.4	24.9	1	2

MDL: Method Detection Limit
 PQL: Practical Quantitation Limit.
 ND: Not Detected (below MDL).



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Digestion Method: EPA 3050B
 Batch No.: 0415-MS1

Lab Job No.: UR604059
 Date Sampled: 04-13-2016
 Date Received: 04-14-2016
 Date Digested: 04-14-2016
 Date Analyzed: 04-15-2016
 Date Reported: 04-22-2016

EPA 6010B/7471A for Cam Metals (TTLIC)

Reporting Units: mg/kg (ppm)

Element	EPA	Method Blank	UR604059-15	UR604059-16	UR604059-17	UR604059-18	MDL	PQL
	Method		SP-2-7.0'	SP-2-10.0'	SP-3-7.0'	SP-3-10.0'		
Antimony (Sb)	6010B	ND	ND	ND	ND	ND	1	2
Arsenic (As)	6010B	ND	1.2	1.1	0.97	2.1	0.3	0.5
Barium (Ba)	6010B	ND	61.4	42.2	52.2	48.7	1	2
Beryllium (Be)	6010B	ND	ND	ND	ND	ND	1	2
Cadmium (Cd)	6010B	ND	ND	ND	ND	ND	1	2
Chromium (Cr)	6010B	ND	9.6	10.7	12.1	10.4	1	2
Cobalt (Co)	6010B	ND	6.5	4.6	5.1	4.6	1	2
Copper (Cu)	6010B	ND	10.4	8.0	8.6	9.7	1	2
Lead (Pb)	6010B	ND	2.5	2.4	3.1	2.4	1	2
Mercury (Hg)	7471A	ND	ND	ND	ND	ND	0.1	0.2
Molybdenum (Mo)	6010B	ND	ND	ND	ND	ND	1	2
Nickel (Ni)	6010B	ND	32.2	20.6	11.9	11.5	1	2
Selenium (Se)	6010B	ND	ND	ND	ND	ND	0.3	0.5
Silver (Ag)	6010B	ND	ND	ND	ND	ND	1	2
Thallium (Tl)	6010B	ND	ND	ND	ND	ND	1	2
Vanadium (V)	6010B	ND	36.3	31.2	43.1	37.5	1	2
Zinc (Zn)	6010B	ND	17.2	18.2	19.9	21.4	1	2

MDL: Method Detection Limit
 PQL: Practical Quantitation Limit.
 ND: Not Detected (below MDL).



Alpha Scientific Corporation
Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Water
 Digestion Method: EPA 3010C
 Batch No. for 6010B: 0420-MW1

Lab Job No.: UR604059
 Date Sampled: 04-12/13-2016
 Date Received: 04-14-2016
 Date Digested: 04-20-2016
 Date Analyzed: 04-20-2016
 Date Reported: 04-22-2016

EPA 6010B/7470A for Cam Metals (TTLC)
Reporting Unit: mg/L (ppm)

Analyte	EPA Method	Method Blank	UR604059-76	UR604059-77				MDL	PQL
			MW-1	MW-2					
Antimony (Sb)	6010B	ND	ND	ND				0.010	0.015
Arsenic (As)	6010B	ND	ND	ND				0.004	0.005
Barium (Ba)	6010B	ND	0.020	0.019				0.010	0.015
Beryllium (Be)	6010B	ND	ND	ND				0.005	0.010
Cadmium (Cd)	6010B	ND	ND	ND				0.005	0.010
Chromium (Cr)	6010B	ND	ND	ND				0.010	0.015
Cobalt (Co)	6010B	ND	ND	ND				0.010	0.015
Copper (Cu)	6010B	ND	0.018	0.025				0.010	0.015
Lead (Pb)	6010B	ND	ND	ND				0.002	0.005
Mercury (Hg)	7470A	ND	ND	ND				0.001	0.002
Molybdenum (Mo)	6010B	ND	ND	ND				0.010	0.015
Nickel (Ni)	6010B	ND	ND	ND				0.010	0.015
Selenium (Se)	6010B	ND	ND	ND				0.004	0.005
Silver (Ag)	6010B	ND	ND	ND				0.010	0.015
Thallium (Tl)	6010B	ND	ND	ND				0.002	0.005
Vanadium (V)	6010B	ND	ND	ND				0.010	0.015
Zinc (Zn)	6010B	ND	0.026	0.023				0.010	0.015

MDL: Method Detection Limit
 PQL: Practical Quantitation Limit.
 J: Trace value. Result is between MDL and PQL.
 ND: Not Detected (at the specified limit).



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Batch No.: AD15-PCBS1

Lab Job No.: UR604059
 Date Sampled: 04-13-2016
 Date Received: 04-14-2016
 Date Analyzed: 04-15-2016
 Date Reported: 04-22-2016

EPA 8082 (PCB's)
Reporting Unit: mg/kg (ppm)

Sample ID	Lab ID	DF	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260
MDL			0.050	0.075	0.050	0.050	0.050	0.050	0.050
PQL			0.075	0.100	0.075	0.075	0.075	0.075	0.075
Method Blank		1	ND	ND	ND	ND	ND	ND	ND
B-1-0.5'	Q604059-9	1	ND	ND	ND	ND	ND	ND	ND
B-1-0.5'	Q604059-9 Dup	1	ND	ND	ND	ND	ND	ND	ND
B-2-0.5'	Q604059-10	1	ND	ND	ND	ND	ND	ND	ND
B-3-0.5'	Q604059-11	1	ND	ND	ND	ND	ND	ND	ND
B-4-0.5'	Q604059-12	1	ND	ND	ND	ND	ND	ND	ND
EH-7-0.5'	Q604059-30	1	ND	ND	ND	ND	ND	ND	ND
NS-4-0.5' NS-4-2.5'	Q604059-32,33	1	ND	ND	ND	ND	ND	ND	ND
NS-1-0.5' NS-1-2.5'	Q604059-62,63 Dup	1	ND	ND	ND	ND	ND	ND	ND
NS-1-0.5' NS-1-2.5'	Q604059-62,63 Dup	1	ND	ND	ND	ND	ND	ND	ND
NS-2-0.5' NS-2-2.5'	Q604059-64,65	1	ND	ND	ND	ND	ND	ND	ND
NS-3-0.5' NS-3-2.5'	Q604059-66,67	1	ND	ND	ND	ND	ND	ND	ND

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
 ND=Not Detected (below DF × MDL).
 J=Result is between DF × MDL and DF × PQL.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Water
 Extraction Method: EPA 3510C
 Batch No.: AD25-PW1

Lab Job No.: UR604059
 Date Sampled: 04-13-2016
 Date Received: 04-14-2016
 Date Extracted: 04-15-2016
 Date Analyzed: 04-25-2016
 Date Reported: 04-26-2016

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/L (ppb)

DATE EXTRACTED			04-15-16	04-15-16	04-15-16			
EXTRACTION METHOD			3510C	3510C	3510C			
DILUTION FACTOR			1	1	1			
LAB SAMPLE I.D.			MB	UR604059-76	UR604059-77			
CLIENT SAMPLE I.D.				MW-1	MW-2			
COMPOUND	MDL	PQL						
Alpha-BHC	0.03	0.05	ND	ND	ND			
Gamma-BHC (Lindane)	0.03	0.05	ND	ND	ND			
Heptachlor	0.03	0.05	ND	ND	ND			
Aldrin	0.03	0.05	ND	ND	ND			
Betta-BHC	0.03	0.05	ND	ND	ND			
Delta-BHC	0.03	0.05	ND	ND	ND			
Heptachlor Epoxide	0.03	0.05	ND	ND	ND			
Endosulfan I	0.03	0.05	ND	ND	ND			
4,4'-DDE	0.03	0.05	ND	ND	ND			
Dieldrin	0.03	0.05	ND	ND	ND			
Endrin	0.03	0.05	ND	ND	ND			
4,4'-DDD	0.03	0.05	ND	ND	ND			
Endosulfan II	0.03	0.05	ND	ND	ND			
4,4'-DDT	0.03	0.05	ND	ND	ND			
Endrin Aldehyde	0.03	0.05	ND	ND	ND			
Endosulfan Sulfate	0.03	0.05	ND	ND	ND			
Methoxychlor	0.03	0.05	ND	ND	ND			
Chlordane	0.25	0.50	ND	ND	ND			
Toxaphene	1.0	2.0	ND	ND	ND			
SURROGATE	Accept Limit%		%RC	%RC	%RC			
Surrogate Standard	60-140		103	93	81			

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
 ND=Not Detected (below DF × MDL)
 J= Trace value. Result is lower than DF × PQL but higher than DF × MDL.
 Note: High dilution factor is used due to limited sample volume.



Alpha Scientific Corporation
Environmental Laboratories

04-22-2016

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Water
 Extraction Method: EPA 3510C
 Batch No.: AD15-PCBW1

Lab Job No.: UR604059
 Date Sampled: 04-13-2016
 Date Received: 04-14-2016
 Date Extracted: 04-15-2016
 Date Analyzed: 04-16-2016

EPA 8082 (PCB's)
Reporting Unit: µg/L(ppb)

Sample ID	Lab ID	DF	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260
MDL			0.5	1.0	0.5	0.5	0.5	0.5	0.5
PQL			2.0	2.0	2.0	2.0	2.0	2.0	2.0
MB		1	ND	ND	ND	ND	ND	ND	ND
MW-2	UR604059-77	1	ND	ND	ND	ND	ND	ND	ND

MDL=Method Detection Limit;
 PQL= Practical Quantitation Limit;
 MB=Method Blank;
 DF= Dilution Factor;
 ND=Not Detected (below DF × MDL)



Alpha Scientific Corporation
Environmental Laboratories

04-22-2016

TPH- Gasoline
Batch QA/QC Report

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Soil
Batch No: BMD14-GS1

Lab Job No.: UR604059
Lab Sample I.D.: UR604059-18
Date Analyzed: 04-14-2016

I. MS/MSD Report
Unit: ppb

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-g	ND	1,000	1,050	925	105.0	92.5	12.7	30	70-130

II. LCS Result
Unit: ppb

Analyte	LCS Value	True Value	Rec.%	Accept. Limit
TPH-g	1,120	1,000	112.0	80-120

ND: Not Detected (at the specified limit).



Alpha Scientific Corporation
Environmental Laboratories

04-22-2016

TPH- Gasoline
Batch QA/QC Report

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Water
Batch No.: BMD15-GW1

Lab Job No.: UR604059
Lab Sample I.D.: UR604059-76
Date Analyzed: 04-15/16-2016

I. MS/MSD Report
Unit: ppb

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-g	ND	1000	874	1,090	87.4	109.0	22.0	30	70-130

II. LCS Result
Unit: ppb

Analyte	LCS Report Value	True Value	Rec. %	Accept. Limit
TPH-g	895	1,000	89.5	80-120

ND: Not Detected (at the specified limit).



Alpha Scientific Corporation
Environmental Laboratories

04-22-2016

**EPA 8015M (TPH)
Batch QA/QC Report**

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Soil
Batch No: BD15-DS1

Lab Job No.: UR604059
Lab Sample I.D.: Q604062-1
Date Analyzed: 04-15-2016

**I. MS/MSD Report
Unit: ppm**

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-D	ND	200	185	181	92.5	90.5	2.2	30	70-130

**II. LCS Result
Unit: ppm**

Analyte	LCS Value	True Value	Rec.%	Accept. Limit
TPH-D	210	200	105.0	80-120

ND: Not Detected (at the specified limit).



Alpha Scientific Corporation
Environmental Laboratories

04-22-2016

**EPA 8015M (TPH)
Batch QA/QC Report**

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Water
Batch No.: BD18-DW1

Lab Job No.: UR604059
Lab Sample I.D.: WS604018-1
Date Analyzed: 04-18-2016

**I. MS/MSD Report
Unit: ppm**

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-d	ND	20	19.0	17.1	95.0	85.5	10.5	30	70-130

**II. LCS Result
Unit: ppm**

Analyte	LCS Value	True Value	Rec.%	Accept. Limit
TPH-d	18.3	20	91.5	80-120

ND: Not Detected (at the specified limit).



Alpha Scientific Corporation
Environmental Laboratories

04-22-2016

EPA 8260B
Batch QA/QC Report

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Soil
Batch No: 0414-VOBS1

Lab Job No.: UR604059
Lab Sample I.D.: UR604059-17
Date Analyzed: 04-14-2016

I. MS/MSD Report
Unit: ppb

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
1,1-Dichloroethene	ND	20	20.2	18.1	101.0	90.5	11.0	30	70-130
Benzene	ND	20	21.9	21.6	109.5	108.0	1.4	30	70-130
Trichloro-ethene	ND	20	23.7	20.6	118.5	103.0	14.0	30	70-130
Toluene	ND	20	19.7	22.6	98.5	113.0	13.7	30	70-130
Chlorobenzene	ND	20	22.0	22.0	110.0	110.0	0	30	70-130

II. LCS Result
Unit: ppb

Analyte	LCS Value	True Value	Rec.%	Accept. Limit
1,1-Dichloroethene	20.6	20.0	103.0	80-120
Benzene	22.5	20.0	112.5	80-120
Trichloro-ethene	19.6	20.0	98.0	80-120
Toluene	20.7	20.0	103.5	80-120
Chlorobenzene	19.8	20.0	99.0	80-120

ND: Not Detected (at the specified limit)



Alpha Scientific Corporation
Environmental Laboratories

04-22-2016

EPA 8260B
Batch QA/QC Report

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Water
Batch No: 0415-VOBW1

Lab Job No.: UR604059
Lab Sample I.D.: UR604059-76
Date Analyzed: 04-16-2016

I. MS/MSD Report
Unit: ppb

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
1,1-Dichloroethene	ND	20	21.4	17.1	107.0	85.5	22.3	30	70-130
Benzene	ND	20	21.9	23.6	109.5	118.0	7.5	30	70-130
Trichloro-ethene	ND	20	20.7	22.6	103.5	113.0	8.8	30	70-130
Toluene	ND	20	19.6	18.8	98.0	94.0	4.2	30	70-130
Chlorobenzene	ND	20	21.5	21.5	107.5	107.5	0	30	70-130

II. LCS Result
Unit: ppb

Analyte	LCS Value	True Value	Rec.%	Accept. Limit
1,1-Dichloroethene	22.1	20.0	110.5	80-120
Benzene	22.9	20.0	114.5	80-120
Trichloro-ethene	19.9	20.0	99.5	80-120
Toluene	19.0	20.0	95.0	80-120
Chlorobenzene	22.0	20.0	110.0	80-120

ND: Not Detected (at the specified limit)



Alpha Scientific Corporation
Environmental Laboratories

04-22-2016

EPA 8270C
Batch QA/QC Report

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Soil
Batch No: 0415-BNAS1

Lab Job No.: UR604059
Lab Sample I.D.: UR604059-15
Date Analyzed: 04-15-2016

MS/MSD Report
Unit: ppm

Compound	MB	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Phenol	ND	100	65.4	62.2	65.4	62.2	5.0	40	12-130
2-Chlorophenol	ND	100	60.4	58.0	60.4	58.0	4.1	40	24-134
1,4-Dichlorobenzene	ND	50	37.4	33.0	74.8	66.0	12.5	40	36-124
n-Nitroso-di-n-propylamine	ND	50	45.3	42.7	90.6	85.4	5.9	40	41-230
1,2,4-Trichlorobenzene	ND	50	34.6	31.5	69.2	63.0	9.4	40	44-142
4-Chloro-3-methylphenol	ND	100	87.6	82.1	87.6	82.1	6.5	40	22-147
Acenaphthene	ND	50	42.6	39.7	85.2	79.4	7.0	40	47-145
4-Nitrophenol	ND	100	101	100	101.0	100.0	1.0	58	12-132
2,4-Dinitrotoluene	ND	50	42.6	43.5	85.2	87.0	2.1	40	39-139
Pentachlorophenol	ND	100	87.4	84.8	87.4	84.8	3.0	51	14-176
Pyrene	ND	50	24.0	22.7	48.0	45.4	5.6	30	26-130

ND: Not Detected.



Alpha Scientific Corporation
Environmental Laboratories

04-22-2016

EPA 8270C
Batch QA/QC Report

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Water
Batch No: 0415-BNAW1

Lab Job No.: UR604059
Lab Sample I.D.: WS604015-1
Date Analyzed: 04-16-2016

MS/MSD Report
Unit: ppb

Compound	MB	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Phenol	ND	100	66.0	61.1	66.0	61.1	7.7	40	12-130
2-Chlorophenol	ND	100	57.9	61.2	57.9	61.2	5.5	40	24-134
1,4-Dichloro-benzene	ND	50	35.9	34.2	71.8	68.4	4.9	40	36-124
n-Nitroso-di-n-propylamine	ND	50	44.3	41.4	88.6	82.8	6.8	40	41-230
1,2,4-Trichloro benzene	ND	50	33.3	37.9	66.6	75.8	12.9	40	44-142
4-Chloro-3-methylphenol	ND	50	93.4	87.5	186.8	175.0	6.5	40	22-147
Acenaphthene	ND	50	42.1	40.7	84.2	81.4	3.4	40	47-145
4-Nitrophenol	ND	100	97.9	122	97.9	122.0	21.9	58	12-132
2,4-Dinitro-toluene	ND	50	43.0	40.6	86.0	81.2	5.7	40	39-139
Pentachloro-phenol	ND	100	93.8	86.6	93.8	86.6	8.0	51	14-176
Pyrene	ND	50	27.4	24.4	54.8	48.8	11.6	30	26-130

ND: Not Detected



Alpha Scientific Corporation
Environmental Laboratories

04-22-2016

EPA 6010B(Arsenic)
Batch QA/QC Report

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Soil
Batch No.: 0418-MS1

Lab Job No.: UR604059
Lab Sample I.D.: UR604059-10
Date Analyzed: 04-18-2016

I. MS/MSD Report
Unit: ppm

Analyte	EPA Method	MB Conc.	Spike Conc.	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Arsenic (As)	6010B	ND	4.0	108.1	104.0	3.9	30	70-130

II. LCS Result
Unit: ppm

Analyte	EPA Method	LCS Value	True Value	Rec.%	Accept. Limit
Arsenic (As)	6010B	4.359	4.0	109.0	80-120

ND: Not Detected.



Alpha Scientific Corporation
Environmental Laboratories

04-22-2016

**EPA 6010B(Arsenic)
Batch QA/QC Report**

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Soil
Batch No.: 0418-MS2

Lab Job No.: UR604059
Lab Sample I.D.: UR604059-71
Date Analyzed: 04-18-2016

I. MS/MSD Report
Unit: ppm

Analyte	EPA Method	MB Conc.	Spike Conc.	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Arsenic (As)	6010B	ND	4.0	117.5	120.1	2.2	30	70-130

II. LCS Result
Unit: ppm

Analyte	EPA Method	LCS Value	True Value	Rec.%	Accept. Limit
Arsenic (As)	6010B	3.898	4.0	97.5	80-120

ND: Not Detected.



Alpha Scientific Corporation
Environmental Laboratories

04-22-2016

**EPA 6010B(Lead)
Batch QA/QC Report**

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Soil
Batch No.: 0418-MS1

Lab Job No.: UR604059
Lab Sample I.D.: UR604059-10
Date Analyzed: 04-18-2016

**I. MS/MSD Report
Unit: ppm**

Analyte	EPA Method	MB Conc.	Spike Conc.	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Lead (Pb)	6010B	ND	4.0	109.8	111.2	1.2	30	70-130

**II. LCS Result
Unit: ppm**

Analyte	EPA Method	LCS Value	True Value	Rec.%	Accept. Limit
Lead (Pb)	6010B	4.131	4.0	103.3	80-120

ND: Not Detected.



Alpha Scientific Corporation
Environmental Laboratories

04-22-2016

**EPA 6010B(Lead)
Batch QA/QC Report**

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Soil
Batch No.: 0418-MS2

Lab Job No.: UR604059
Lab Sample I.D.: UR604059-71
Date Analyzed: 04-18-2016

**I. MS/MSD Report
Unit: ppm**

Analyte	EPA Method	MB Conc.	Spike Conc.	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Lead (Pb)	6010B	ND	4.0	118.6	121.3	2.2	30	70-130

**II. LCS Result
Unit: ppm**

Analyte	EPA Method	LCS Value	True Value	Rec.%	Accept. Limit
Lead (Pb)	6010B	3.698	4.0	92.5	80-120

ND: Not Detected.



Alpha Scientific Corporation
Environmental Laboratories

04-22-2016

EPA 8081A (Pesticides)
Batch QA/QC Report

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Soil
Batch No.: AD18-PS1

Lab Job No.: UR604059
Lab Sample I.D.: UR604059-13
Date Analyzed: 04-19-2016

I. MS/MSD Report
Unit: ppb

Analyte	Method Blank	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Gamma-BHC	ND	20	16.8	16.4	84.0	82.0	2.4	30	46-127
Heptachlor	ND	20	18.1	17.7	90.5	88.5	2.2	30	31-134
Aldrin	ND	20	18.3	18.2	91.5	91.0	0.5	30	36-132
Dieldrin	ND	20	19.2	19.1	96.0	95.5	0.5	30	21-134
Endrin	ND	20	14.6	14.4	73.0	72.0	1.4	30	42-139
4,4'-DDT	ND	20	10.1	10.4	50.5	52.0	2.9	30	21-134

II. LCS Result
Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	Accept. Limit
Gamma-BHC	16.0	20	80.0	80-120
Heptachlor	17.1	20	85.5	80-120
Aldrin	19.2	20	96.0	80-120
Dieldrin	20.4	20	102.0	80-120
Endrin	17.7	20	88.5	80-120
4,4'-DDT	17.0	20	85.0	80-120

ND: Not Detected.



Alpha Scientific Corporation

Environmental Laboratories

04-22-2016

EPA 8081A (Pesticides) Batch QA/QC Report

Client: AECOM / URS Corporation
 Project: 60483930
 Matrix: Soil
 Batch No.: AD19-PS2

Lab Job No.: UR604059
 Lab Sample I.D.: UR604059-73
 Date Analyzed: 04-21-2016

I. MS/MSD Report Unit: ppb

Analyte	Method Blank	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Gamma-BHC	ND	20	19.9	23.7	99.5	118.5	17.4	30	46-127
Heptachlor	ND	20	21.6	22.1	108.0	110.5	2.3	30	31-134
Aldrin	ND	20	17.7	19.1	88.5	95.5	7.6	30	36-132
Dieldrin	ND	20	18.5	16.3	92.5	81.5	12.6	30	21-134
Endrin	ND	20	18.1	18.6	90.5	93.0	2.7	30	42-139
4,4'-DDT	ND	20	22.6	23.2	113.0	116.0	2.6	30	21-134

II. LCS Result Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	Accept. Limit
Gamma-BHC	19.4	20	97.0	80-120
Heptachlor	20.0	20	100.0	80-120
Aldrin	18.5	20	92.5	80-120
Dieldrin	19.1	20	95.5	80-120
Endrin	16.9	20	84.5	80-120
4,4'-DDT	17.9	20	89.5	80-120

ND: Not Detected.



Alpha Scientific Corporation
Environmental Laboratories

**EPA 8081A (Pesticides)
Batch QA/QC Report**

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Soil
Batch No.: AD21-PS1

Lab Job No.: UR604059
Lab Sample I.D.: UR604073-1
Date Analyzed: 04-21-2016

I. MS/MSD Report
Unit: ppb

Analyte	Method Blank	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Gamma-BHC	ND	20	23.6	23.5	118.0	117.5	0.4	30	46-127
Heptachlor	ND	20	22.6	23.4	113.0	117.0	3.5	30	31-134
Aldrin	ND	20	18.8	19.3	94.0	96.5	2.6	30	36-132
Dieldrin	ND	20	19.0	19.8	95.0	99.0	4.1	30	21-134
Endrin	ND	20	19.3	19.7	96.5	98.5	2.1	30	42-139
4,4'-DDT	ND	20	24.4	25.0	122.0	125.0	2.4	30	21-134

II. LCS Result
Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	Accept. Limit
Gamma-BHC	23.7	20	118.5	80-120
Heptachlor	22.2	20	111.0	80-120
Aldrin	19.5	20	97.5	80-120
Dieldrin	19.3	20	96.5	80-120
Endrin	22.8	20	114.0	80-120
4,4'-DDT	23.5	20	117.5	80-120

ND: Not Detected.



Alpha Scientific Corporation
Environmental Laboratories

04-22-2016

EPA 6010B/7471A for CAM Metals
Batch QA/QC Report

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Soil
Batch No.: 0415-MSI

Lab Job No.: UR604059
Lab Sample I.D.: UR604059-16
Date Analyzed: 04-15-2016

I. MS/MSD Report
Unit: ppm

Analyte	EPA Method	MB Conc.	Spike Conc.	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Antimony (Sb)	6010B	ND	10	104.8	106.7	1.8	30	70-130
Arsenic (As)	6010B	ND	10	108.3	108.9	0.6	30	70-130
Barium (Ba)	6010B	ND	10	98.3	98.1	0.2	30	70-130
Beryllium (Be)	6010B	ND	10	96.2	95.7	0.5	30	70-130
Cadmium (Cd)	6010B	ND	10	94.8	92.2	2.8	30	70-130
Chromium (Cr)	6010B	ND	10	99.3	102.7	3.3	30	70-130
Cobalt (Co)	6010B	ND	10	109.8	109.6	0.3	30	70-130
Copper (Cu)	6010B	ND	10	106.7	108.1	1.3	30	70-130
Lead (Pb)	6010B	ND	10	105.7	105.0	0.7	30	70-130
Molybdenum (Mo)	6010B	ND	10	110.9	110.3	0.5	30	70-130
Nickel (Ni)	6010B	ND	10	100.1	97.2	3.0	30	70-130
Selenium (Se)	6010B	ND	10	88.7	82.6	6.1	30	70-130
Silver (Ag)	6010B	ND	10	104.0	110.8	6.3	30	70-130
Thallium (Tl)	6010B	ND	10	117.3	112.6	4.1	30	70-130
Vanadium (V)	6010B	ND	10	92.9	93.6	0.7	30	70-130
Zinc (Zn)	6010B	ND	10	98.0	94.9	3.2	30	70-130

ND: Not Detected.



Alpha Scientific Corporation
Environmental Laboratories

04-22-2016

EPA 6010B/7471A for CAM Metals
Batch QA/QC Report

Client: AECOM Corporation
Project: 60425280
Matrix: Soil
Batch No.: 0415-MS1

Lab Job No.: UR604059
Lab Sample I.D.: LCS
Date Analyzed: 04-15-2016

LCS Result
Unit: ppm

Analyte	EPA Method	LCS Value	True Value	Rec.%	Accept. Limit
Antimony (Sb)	6010B	9.987	10	99.9	80-120
Arsenic (As)	6010B	9.672	10	96.7	80-120
Barium (Ba)	6010B	9.251	10	92.5	80-120
Beryllium (Be)	6010B	9.192	10	91.9	80-120
Cadmium (Cd)	6010B	9.398	10	94.0	80-120
Chromium (Cr)	6010B	9.688	10	96.9	80-120
Cobalt (Co)	6010B	9.547	10	95.5	80-120
Copper (Cu)	6010B	9.939	10	99.4	80-120
Lead (Pb)	6010B	9.418	10	94.2	80-120
Molybdenum (Mo)	6010B	9.568	10	95.7	80-120
Nickel (Ni)	6010B	9.849	10	98.5	80-120
Selenium (Se)	6010B	10.07	10	100.7	80-120
Silver (Ag)	6010B	10.62	10	106.2	80-120
Thallium (Tl)	6010B	10.13	10	101.3	80-120
Vanadium (V)	6010B	10.16	10	101.6	80-120
Zinc (Zn)	6010B	9.667	10	96.7	80-120

ND: Not Detected (at the specified limit).



Alpha Scientific Corporation
Environmental Laboratories

04-22-2016

**EPA 6010B/7470A for CAM Metals (TTLC)
Batch QA/QC Report**

Client: AECOM Corporation
Project: 60425280
Matrix: Water
Batch No.: 0420-MW1

Lab Job No.: UR604059
Lab Sample I.D.: UR604059-76
Date Analyzed: 04-20-2016

**I. MS/MSD Report
Unit: ppm**

Analyte	EPA Method	MB Conc.	Spike Conc.	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Antimony (Sb)	6010B	ND	0.1	112.9	115.1	2.0	30	70-130
Arsenic (As)	6010B	ND	0.1	111.2	114.9	3.2	30	70-130
Barium (Ba)	6010B	ND	0.1	116.8	114.5	2.0	30	70-130
Beryllium (Be)	6010B	ND	0.1	109.0	108.6	0.4	30	70-130
Cadmium (Cd)	6010B	ND	0.1	111.7	110.0	1.5	30	70-130
Chromium (Cr)	6010B	ND	0.1	129.3	125.5	3.0	30	70-130
Cobalt (Co)	6010B	ND	0.1	115.8	115.9	0.1	30	70-130
Copper (Cu)	6010B	ND	0.1	115.9	122.3	5.4	30	70-130
Lead (Pb)	6010B	ND	0.1	114.3	114.2	0.1	30	70-130
Molybdenum (Mo)	6010B	ND	0.1	111.7	112.4	0.6	30	70-130
Nickel (Ni)	6010B	ND	0.1	110.4	109.9	0.5	30	70-130
Selenium (Se)	6010B	ND	0.1	108.7	104.0	4.4	30	70-130
Silver (Ag)	6010B	ND	0.1	96.1	102.1	6.0	30	70-130
Thallium (Tl)	6010B	ND	0.1	103.1	109.5	6.0	30	70-130
Vanadium (V)	6010B	ND	0.1	100.5	98.3	2.2	30	70-130
Zinc (Zn)	6010B	ND	0.1	110.3	108.1	2.0	30	70-130

ND: Not Detected.



Alpha Scientific Corporation
Environmental Laboratories

04-22-2016

EPA 6010B/7470A for CAM Metals (TTLC)
Batch QA/QC Report

Client: AECOM Corporation
Project: 60425280
Matrix: Water
Batch No.: 0420-MW1

Lab Job No.: UR604059
Lab Sample I.D.: LCS
Date Analyzed: 04-20-2016

II. LCS Result
Unit: ppm

Analyte	EPA Method	LCS Value	True Value	Rec. %	Accept. Limit
Antimony (Sb)	6010B	0.0940	0.1	94.0	80-120
Arsenic (As)	6010B	0.0903	0.1	90.3	80-120
Barium (Ba)	6010B	0.0905	0.1	90.5	80-120
Beryllium (Be)	6010B	0.0867	0.1	86.7	80-120
Cadmium (Cd)	6010B	0.0907	0.1	90.7	80-120
Chromium (Cr)	6010B	0.0966	0.1	96.6	80-120
Cobalt (Co)	6010B	0.0886	0.1	88.6	80-120
Copper (Cu)	6010B	0.0899	0.1	89.9	80-120
Lead (Pb)	6010B	0.0916	0.1	91.6	80-120
Molybdenum (Mo)	6010B	0.0937	0.1	93.7	80-120
Nickel (Ni)	6010B	0.0892	0.1	89.2	80-120
Selenium (Se)	6010B	0.0932	0.1	93.2	80-120
Silver (Ag)	6010B	0.0890	0.1	89.0	80-120
Thallium (Tl)	6010B	0.0879	0.1	87.9	80-120
Vanadium (V)	6010B	0.0900	0.1	90.0	80-120
Zinc (Zn)	6010B	0.0941	0.1	94.1	80-120

ND: Not Detected (at the specified limit).



Alpha Scientific Corporation
Environmental Laboratories

04-22-2016

EPA 8082
Batch QA/QC Report

Client: AECOM Corporation
Project: 60425280
Matrix: Soil
Batch No. AD15-PCBS1

Lab Job No.: UR604059
Lab Sample I.D.: PI604065-1
Date Analyzed: 04-15-2016

I. MS/MSD Report
Unit: ppm

Analyte	Method Blank	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
1016	ND	500	435	439	87.0	87.8	0.9	30	46-127
1260	ND	500	436	431	87.2	86.2	1.2	30	31-134

II. LCS Result
Unit: ppm

Compound	LCS Report Value	True Value	Rec.%	Accept. Limit
1016	424	500	84.8	80-120
1260	412	500	82.4	80-120

ND: Not Detected (at the specified limit).



Alpha Scientific Corporation
Environmental Laboratories

04-22-2016

EPA 8082
Batch QA/QC Report

Client: AECOM Corporation
Project: 60425280
Matrix: Soil
Batch No. AD15-PCBW1

Lab Job No.: UR604059
Lab Sample I.D.: SW604015-1
Date Analyzed: 04-16-2016

I. MS/MSD Report
Unit: ppb

Analyte	Method Blank	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
1016	ND	5.0	4.51	4.48	90.2	89.6	0.7	30	46-127
1260	ND	5.0	4.45	4.45	89.0	89.0	0.0	30	31-134

II. LCS Result
Unit: ppm

Compound	LCS Report Value	True Value	Rec.%	Accept. Limit
1016	4.50	5.0	90.0	80-120
1260	4.49	5.0	89.8	80-120

ND: Not Detected (at the specified limit).



Alpha Scientific Corporation
Environmental Laboratories

04-26-2016

**EPA 8081A (Pesticides)
Batch QA/QC Report**

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Water
Batch No.: AD25-PW1

Lab Job No.: UR604059
Lab Sample I.D.: WS604025-1
Date Analyzed: 04-25-2016

MS/MSD Report
Unit: ppb

Analyte	Method Blank	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Gamma-BHC	ND	2.0	2.21	2.24	110.5	112.0	1.3	30	46-127
Heptachlor	ND	2.0	2.14	2.16	107.0	108.0	0.9	30	31-134
Aldrin	ND	2.0	1.71	1.76	85.5	88.0	2.9	30	36-132
Dieldrin	ND	2.0	1.76	1.78	88.0	89.0	1.1	30	21-134
Endrin	ND	2.0	1.66	1.63	83.0	81.5	1.8	30	42-139
4,4'-DDT	ND	2.0	2.06	2.12	103.0	106.0	2.9	30	21-139

II. LCS Result
Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	Accept. Limit
Gamma-BHC	2.26	2.0	113.0	80-120
Heptachlor	2.13	2.0	106.5	80-120
Aldrin	1.76	2.0	88.0	80-120
Dieldrin	1.79	2.0	89.5	80-120
Endrin	1.60	2.0	80.0	80-120
4,4'-DDT	1.99	2.0	99.5	80-120

ND: Not Detected.



Alpha Scientific Corporation

Environmental Laboratories

MultiLevel Quality Control Sign Off (Soil Sample)

Sample Preparation		Extraction/DigestionPreparation according to SOP# ASC3550B-1			
HT met: HT Date(s): <u>04-26-2016</u> Ext. Date: <u>04-14-2016</u>	Yes: **	No:	NA:		
Sample container Labels checked at all stages	Yes: **	No:	NA:		
Sample preservation checked	Yes: **	No:	NA:		
Sample preservation acceptable:	Yes: **	No:	NA:		
Sufficient sample provided for method QC:	Yes: **	No:	NA:		
Proper number of QC samples performed per method:	Yes: **	No:	NA:		
Specific QC requirements of client performed:	Yes **	No:	NA:		
Were soil samples corrected for % moisture:	Yes	No: **	NA:		
Proper number of blanks performed:	Yes: **	No:	NA:		
Brought to final volume and labeled properly:	Yes: **	No:	NA:		
Entered information into proper lab notebooks:	Yes: **	No:	NA:		
Deviations to any of the above items:	Yes:	No: **	NA:		
Reasons/explanation for deviation & supervisors initial:					
Name of technician(s) or chemist/Date GG /04-22-2016					
Name of reviewer/Date Sue /04-22-2016					
Comments:					
Instrumentation Analyses		Samples analyzed according to SOP# ASC8081-1/8270-1/TPH			
Holding time met for all analyses:	Yes: **	No:	NA:		
Calibrations include all pertinent analytes:	Yes: **	No:	NA:		
Initial calibration in control:	Yes: **	No:	NA:		
Second source calibrations in control:	Yes: **	No:	NA:		
LCS(/LCSD) passes:	Yes: **	No:	NA:		
Method blank/calibration blank passes:	Yes: **	No:	NA:		
Matrix Duplicate and MS/MSD passes:	Yes: **	No:	NA:		
Surrogate passes:	Yes: **	No:	NA:		
Results transcribed correctly from raw data:	Yes: **	No:	NA:		
Do the dilutions agree?	Yes: **	No:	NA:		
Were soil samples corrected for % moisture:	Yes:	No: **	NA:		
Manual integration 2nd level review:	Yes:	No:	NA: **		
Deviations to any of the above items:	Yes:	No: **	NA:		
Reasons/explanation for deviation & supervisors initial:					
Name of analyst(s)/Date: GG /04-22-2016					
Name of Data entry/Date: GG /04-22-2016					
Name of reviewer/Date: Sue/ 04-22-2016					
Comments:					



Alpha Scientific Corporation

Environmental Laboratories

MultiLevel Quality Control Sign Off (Soil Sample)

Sample Preparation		Extraction/DigestionPreparation according to SOP# ASC3050B-1/ASC7471-1		
HT met: HT Date(s): <u>10-09-2016</u> Ext. Date: <u>04-14-2016</u>	Yes: • •	No:	NA:	
Sample container Labels checked at all stages	Yes: • •	No:	NA:	
Sample preservation checked	Yes: • •	No:	NA:	
Sample preservation acceptable:	Yes: • •	No:	NA:	
Sufficient sample provided for method QC:	Yes: • •	No:	NA:	
Proper number of QC samples performed per method:	Yes: • •	No:	NA:	
Specific QC requirements of client performed:	Yes • •	No:	NA:	
Were soil samples corrected for % moisture:	Yes	No: • •	NA:	
Proper number of blanks performed:	Yes: • •	No:	NA:	
Brought to final volume and labeled properly:	Yes: • •	No:	NA:	
Entered information into proper lab notebooks:	Yes: • •	No:	NA:	
Deviations to any of the above items:	Yes:	No: • •	NA:	
Reasons/explanation for deviation & supervisors initial:				
Name of technician(s) or chemist/Date GG /04-22-2016				
Name of reviewer/Date Sue/ 04-22-2016				
Comments:				
Instrumentation Analyses		Samples analyzed according to SOP# ASC6010B-1/ASC7471-1		
Holding time met for all analyses:	Yes: • •	No:	NA:	
Calibrations include all pertinent analytes:	Yes: • •	No:	NA:	
Initial calibration in control:	Yes: • •	No:	NA:	
Second source calibrations in control:	Yes: • •	No:	NA:	
LCS(/LCSD) passes:	Yes: • •	No:	NA:	
Method blank/calibration blank passes:	Yes: • •	No:	NA:	
Matrix Duplicate and MS/MSD passes:	Yes: • •	No:	NA:	
Surrogate passes:	Yes:	No:	NA:• •	
Results transcribed correctly from raw data:	Yes: • •	No:	NA:	
Do the dilutions agree?	Yes: • •	No:	NA:	
Were soil samples corrected for % moisture:	Yes:	No: • •	NA:	
Manual integration 2nd level review:	Yes:	No:	NA:• •	
Deviations to any of the above items:	Yes:	No: • •	NA:	
Reasons/explanation for deviation & supervisors initial:				
Name of analyst(s)/Date: GG /04-22-2016				
Name of Data entry/Date: GG /04-22-2016				
Name of reviewer/Date: Sue/ 04-22-2016				
Comments:				



Alpha Scientific Corporation

Environmental Laboratories

MultiLevel Quality Control Sign Off (Water Sample)

Sample Preparation	Extraction/DigestionPreparation according to SOP# ASC3510C-1			
HT met: HT Date(s): <u>04-26-2016</u> Ext. Date: <u>04-15-2016</u>	Yes: **	No:	NA:	
Sample container Labels checked at all stages	Yes: **	No:	NA:	
Sample preservation checked	Yes: **	No:	NA:	
Sample preservation acceptable:	Yes: **	No:	NA:	
Sufficient sample provided for method QC:	Yes: **	No:	NA:	
Proper number of QC samples performed per method:	Yes: **	No:	NA:	
Specific QC requirements of client performed:	Yes: **	No:	NA:	
Were soil samples corrected for % moisture:	Yes	No: **	NA:	
Proper number of blanks performed:	Yes: **	No:	NA:	
Brought to final volume and labeled properly:	Yes: **	No:	NA:	
Entered information into proper lab notebooks:	Yes: **	No:	NA:	
Deviations to any of the above items:	Yes:	No: **	NA:	
Reasons/explanation for deviation & supervisors initial:				
Name of technician(s) or chemist/Date GG /04-22-2016				
Name of reviewer/Date Sue /04-22-2016				
Comments:				
Instrumentation Analyses	Samples analyzed according to SOP# ASC8081/8270-1/TPH			
Holding time met for all analyses:	Yes: **	No:	NA:	
Calibrations include all pertinent analytes:	Yes: **	No:	NA:	
Initial calibration in control:	Yes: **	No:	NA:	
Second source calibrations in control:	Yes: **	No:	NA:	
LCS/(LCSD) passes:	Yes: **	No:	NA:	
Method blank/calibration blank passes:	Yes: **	No:	NA:	
Matrix Duplicate and MS/MSD passes:	Yes: **	No:	NA:	
Surrogate passes:	Yes: **	No:	NA:	
Results transcribed correctly from raw data:	Yes: **	No:	NA:	
Do the dilutions agree?	Yes: **	No:	NA:	
Were soil samples corrected for % moisture:	Yes:	No: **	NA:	
Manual integration 2nd level review:	Yes:	No:	NA: **	
Deviations to any of the above items:	Yes:	No: **	NA:	
Reasons/explanation for deviation & supervisors initial:				
Name of analyst(s)/Date: GG /04-22-2016				
Name of Data entry/Date: GG /04-22-2016				
Name of reviewer/Date: Sue/ 04-22-2016				
Comments:				



Alpha Scientific Corporation

Environmental Laboratories

MultiLevel Quality Control Sign Off (Water Sample)

Sample Preparation		Extraction/DigestionPreparation according to SOP# ASC3010C-1/ASC7470-1		
HT met: HT Date(s): <u>10-09-2016</u> Ext. Date: <u>04-14-2016</u>	Yes: • •	No:	NA:	
Sample container Labels checked at all stages	Yes: • •	No:	NA:	
Sample preservation checked	Yes: • •	No:	NA:	
Sample preservation acceptable:	Yes: • •	No:	NA:	
Sufficient sample provided for method QC:	Yes: • •	No:	NA:	
Proper number of QC samples performed per method:	Yes: • •	No:	NA:	
Specific QC requirements of client performed:	Yes: • •	No:	NA:	
Were soil samples corrected for % moisture:	Yes	No: • •	NA:	
Proper number of blanks performed:	Yes: • •	No:	NA:	
Brought to final volume and labeled properly:	Yes: • •	No:	NA:	
Entered information into proper lab notebooks:	Yes: • •	No:	NA:	
Deviations to any of the above items:	Yes:	No: • •	NA:	
Reasons/explanation for deviation & supervisors initial:				
Name of technician(s) or chemist/Date <u>GG /04-22-2016</u>				
Name of reviewer/Date <u>Sue/ 04-22-2016</u>				
Comments:				
Instrumentation Analyses		Samples analyzed according to SOP# ASC6010B-1/ASC7470-1		
Holding time met for all analyses:	Yes: • •	No:	NA:	
Calibrations include all pertinent analytes:	Yes: • •	No:	NA:	
Initial calibration in control:	Yes: • •	No:	NA:	
Second source calibrations in control:	Yes: • •	No:	NA:	
LCS(/LCSD) passes:	Yes: • •	No:	NA:	
Method blank/calibration blank passes:	Yes: • •	No:	NA:	
Matrix Duplicate and MS/MSD passes:	Yes: • •	No:	NA:	
Surrogate passes:	Yes:	No:	NA: • •	
Results transcribed correctly from raw data:	Yes: • •	No:	NA:	
Do the dilutions agree?	Yes: • •	No:	NA:	
Were soil samples corrected for % moisture:	Yes:	No: • •	NA:	
Manual integration 2nd level review:	Yes:	No:	NA: • •	
Deviations to any of the above items:	Yes:	No: • •	NA:	
Reasons/explanation for deviation & supervisors initial:				
Name of analyst(s)/Date: <u>GG /04-22-2016</u>				
Name of Data entry/Date: <u>GG /04-22-2016</u>				
Name of reviewer/Date: <u>Sue/ 04-22-2016</u>				
Comments:				



ALPHA SCIENTIFIC CORPORATION
CHAIN OF CUSTODY RECORD

Lab Job Number **WR604059**

Client							Analyses Requested											T.A.T. Requested			
AECOM																		8hrs <input type="checkbox"/> 24 hrs <input type="checkbox"/> 48hrs <input type="checkbox"/>			
Address																		<input type="checkbox"/> 3 days <input checked="" type="checkbox"/> Normal			
1360 E Spruce Ave, Suite 101, Fresno, CA 93611																		Sample Condition			
Report Attention		Phone		Fax		Sampled by													<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact		
Stuart StClair		(559) 448-8222				Chad Neptune													<input type="checkbox"/> Sample Seals		
Project Name/No.		Project Site																Remark			
60483930		Church and Peach PEA																			
Client Sample ID	Lab Sample ID	Sample Collect		Matrix Type	Sample Preserv	No., type* & size of container	TPH-g	TPH-d&o	EPA 8260B (BTEX, Oxygenates)	EPA 8260B (VOCs)	EPA 8270C (SVOCs)	CAM Metals	EPA 8082 (PCBs)	Arsenic (6010B)	OCPs (8081A)	PCBs (8082)	Title 22 Metals (6010B)	Lead 6010B			
		Date	Time																		
WR 604059 -1	WS-1-0.5'	4-part	4/13/16	12:26	Soil	None	1, 2 oz, Jar													Analyze Composite	
2	WS-2-0.5'	Composite	4/13/16	12:27	Soil	None	1, 2 oz, Jar														
3	WS-3-0.5'		4/13/16	12:28	Soil	None	1, 2 oz, Jar														
4	WS-4-0.5'		4/13/16	12:29	Soil	None	1, 2 oz, Jar														
5	WS-5-0.5'	4-Part Composite	4/13/16	12:30	Soil	None	1, 2 oz, Jar													Analyze Composite	
6	WS-6-0.5'		4/13/16	12:31	Soil	None	1, 2 oz, Jar														
7	WS-7-0.5'		4/13/16	12:32	Soil	None	1, 2 oz, Jar														
8	WS-8-0.5'		4/13/16	12:33	Soil	None	1, 2 oz, Jar														
9	B-1-0.5		4/13/16	11:00	Soil	None	1, SS Tube							X	X	X	X	X	X	Lab Dup	
10	B-2-0.5		4/13/16	11:05	Soil	None	1, SS Tube							X	X	X	X	X	X		
11	B-3-0.5		4/13/16	11:10	Soil	None	1, SS Tube							X	X	X	X	X	X		
12	B-4-0.5		4/13/16	11:15	Soil	None	1, SS Tube							X	X	X	X	X	X		
13	SP-1-7.0'		4/13/16	10:50	Soil	None	1, P Tube	X	X	X	X			X	X	X	X	X	X	Lab Dup	
14	SP-1-10.0'		4/13/16	11:00	Soil	None	1, P Tube	X	X	X	X			X	X	X	X	X	X		
15	SP-2-7.0'		4/13/16	11:10	Soil	None	1, P Tube	X	X	X	X			X	X	X	X	X	X		
16	SP-2-10.0'		4/13/16	11:20	Soil	None	1, P Tube	X	X	X	X			X	X	X	X	X	X		
17	SP-3-7.0'		4/13/16	11:30	Soil	None	1, P Tube	X	X	X	X			X	X	X	X	X	X		
18	SP-3-10.0'		4/13/16	11:40	Soil	None	1, P Tube	X	X	X	X			X	X	X	X	X	X		
Relinquished by		Company		Date	Time	Received by		Company		Date	Time	Container types: M=metal Tube A=Air Bag P=Plastic bottle G=Glass bottle V=Vial									
Chad Neptune		AECOM		4/13/2016	1600	On Trac															
Relinquished by		Company		Date	Time	Received by		Company		Date	Time										
						[Signature]		ASC		4/14/16	9:10 AM										



ALPHA SCIENTIFIC CORPORATION
CHAIN OF CUSTODY RECORD

Client							Analyses Requested										T.A.T. Requested				
AECOM																	8hrs <input type="checkbox"/> 24hrs <input type="checkbox"/> 48hrs <input type="checkbox"/>				
Address																	<input type="checkbox"/> 3 days <input checked="" type="checkbox"/> Normal				
1360 E Spruce Ave, Suite 101, Fresno, CA 93611																	Sample Condition				
Report Attention		Phone		Fax		Sampled by												<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact			
Stuart StClair		(559) 448-8222				Chad Neptune												<input type="checkbox"/> Sample Seals			
Project Name/No.		Project Site															Remark				
60483930		Church and Peach PEA																			
Client Sample ID	Lab Sample ID	Sample Collect		Matrix Type	Sample Preserv	No., type* & size of container	TPH-g	TPH-d&o	EPA 8260B (BTEX, Oxygenates)	EPA 8260B (VOCs)	EPA 8270C (SVOCs)	CAM Metals	EPA 8082 (PCBs)	Arsenic (6010B)	OCPs (8081A)	PCBs (8082)	Title 22 Metals (6010B)	Lead 6010B	Remark		
		Date	Time																		
WR 604059-19	S-65Q-0.5'	4-part Composite	4/13/16	12:10	Soil	None	1, 2 oz, Jar													Arsenic Discreet	
20	S-66Q-0.5'	Analyze for OCPs 8081A	4/13/16	12:13	Soil	None	1, 2 oz, Jar														
21	S-67Q-0.5'		4/13/16	12:11	Soil	None	1, 2 oz, Jar														
22	S-68Q-0.5'		4/13/16	12:12	Soil	None	1, 2 oz, Jar														
23	S-25G-0.5'	4-part Composite	4/13/16	13:12	Soil	None	1, 2 oz, Jar														
24	S-26G-0.5'	Analyze for OCPs 8081A	4/13/16	13:15	Soil	None	1, 2 oz, Jar														
25	S-27G-0.5'		4/13/16	13:16	Soil	None	1, 2 oz, Jar														Arsenic Discreet
26	S-28G-0.5'		4/13/16	13:18	Soil	None	1, 2 oz, Jar														
27	ID-1-0.5'	3-part Composite	4/13/16	12:20	Soil	None	1, 2 oz, Jar													Analyze Composite	
28	ID-2-0.5'		4/13/16	12:21	Soil	None	1, 2 oz, Jar														
29	ID-3-0.5'		4/13/16	12:22	Soil	None	1, 2 oz, Jar														
30	EH-7-0.5'		4/13/16	13:15	Soil	None	1, SS Tube														
31	EH-7-2.5'		4/13/16	13:20	Soil	None	1, SS Tube													Hold	
32	NS-4-0.5'	2-part Composite	4/13/16	11:50	Soil	None	1, SS Tube													Analyze Composite	
33	NS-4-2.5'		4/13/16	12:00	Soil	None	1, SS Tube														Composite

Relinquished by	Company	Date	Time	Received by	Company	Date	Time	Container types: M=metal Tube, A=Air Bag, G=Glass bottle, V=VOA vial	
Chad Neptune	AECOM	4/13/2016	1600	On Trac					
Relinquished by	Company	Date	Time	Received by	Company	Date	Time		
				<i>[Signature]</i>	ASC	4/14/16	4:10 AM		

ascorp@verizon.net

16760 Gridley Road
Cerritos, CA 90703

Tel: (562) 809-8880
Fax: (562) 809-8801



ALPHA SCIENTIFIC CORPORATION CHAIN OF CUSTODY RECORD

Lab Job Number UR604059

Client							Analyses Requested											T.A.T. Requested			
AECOM																		8hrs	24 hrs	48hrs	
Address																		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1360 E Spruce Ave, Suite 101, Fresno, CA 93611																		<input type="checkbox"/> 3 days <input checked="" type="checkbox"/> Normal			
Report Attention		Phone		Fax		Sampled by													Sample Condition		
Stuart StClair		(559) 448-8222				Chad Neptune													<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact		
Project Name/No.		Project Site																<input type="checkbox"/> Sample Seals			
60483930		Church and Peach PEA																Remark			
Client Sample ID	Lab Sample ID	Sample Collect		Matrix Type	Sample Preserv	No., type* & size of container	TPH-g	TPH-d&o	EPA 8260B (BTEX, Oxygenates)	EPA 8260B (VOCs)	EPA 8270C (SVOCs)	CAM Metals	EPA 8082 (PCBs)	Arsenic (6010B)	OCs (8081A)	PCBs (8082)	Title 22 Metals (6010B)				
		Date	Time																		
UR 6040 -34	S-29H-0.5'	4-part	4/13/16	11:10	Soil	None	1, 2 oz, Jar														
35	S-30H-0.5'	Composite Analyze for OCs 8081A	4/13/16	11:18	Soil	None	1, 2 oz, Jar														
36	S-31H-0.5'		4/13/16	11:16	Soil	None	1, 2 oz, Jar														
37	S-32H-0.5'		4/13/16	11:14	Soil	None	1, 2 oz, Jar														
38	S-49M-0.5'	4-part	4/13/16	11:20	Soil	None	1, 2 oz, Jar														
39	S-50M-0.5'	Composite Analyze for OCs 8081A	4/13/16	11:26	Soil	None	1, 2 oz, Jar														
40	S-51M-0.5'		4/13/16	11:22	Soil	None	1, 2 oz, Jar														
41	S-52M-0.5'		4/13/16	11:24	Soil	None	1, 2 oz, Jar														
42	S-57O-0.5'	4-part Composite	4/13/16	12:05	Soil	None	1, 2 oz, Jar														
43	S-58O-0.5'	Analyze for OCs 8081A	4/13/16	12:17	Soil	None	1, 2 oz, Jar														
44	S-59O-0.5'		4/13/16	12:07	Soil	None	1, 2 oz, Jar														
45	S-60O-0.5'		4/13/16	12:16	Soil	None	1, 2 oz, Jar														
46	S-61P-0.5'	4-part Composite	4/13/16	12:08	Soil	None	1, 2 oz, Jar														
47	S-62P-0.5'	Analyze for OCs 8081A	4/13/16	12:15	Soil	None	1, 2 oz, Jar														
48	S-63P-0.5'		4/13/16	12:09	Soil	None	1, 2 oz, Jar														
49	S-64P-0.5'		4/13/16	12:14	Soil	None	1, 2 oz, Jar														

Arseenic Discreet
Arseenic Discreet
Arseenic Discreet

Relinquished by	Company	Date	Time	Received by	Company	Date	Time	Container types: M=metal Tube A=Air Bag P=Plastic bottle G=Glass bottle V=VOA vial	
Chad Neptune	AECOM	4/13/2016	1600	On Trac					
Relinquished by	Company	Date	Time	Received by	Company	Date	Time		
				<i>[Signature]</i>	ABC	4/14/16	9:10 AM		



ALPHA SCIENTIFIC CORPORATION
CHAIN OF CUSTODY RECORD

Lab Job Number WR604059

Client								Analyses Requested										T.A. Requested		
AECOM																		8hrs <input type="checkbox"/> 24 hrs <input type="checkbox"/> 48hrs <input type="checkbox"/>		
Address																		<input type="checkbox"/> 3 days <input checked="" type="checkbox"/> Normal		
1360 E Spruce Ave, Suite 101, Fresno, CA 93611																		Sample Condition		
Report Attention		Phone		Fax		Sampled by												<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact		
Stuart StClair		(559) 448-8222				Chad Neptune												<input type="checkbox"/> Sample Seals		
Project Name/No.		Project Site																Remark		
60483930		Church and Peach PEA																		
Client Sample ID	Lab Sample ID	Sample Collect		Matrix Type	Sample Preserv	No., type* & size of container	TPH-g	TPH-d&o	EPA 8260B (BTEX, Oxygenates)	EPA 8260B (VOCs)	EPA 8270C (SVOCs)	CAM Metals	EPA 8082 (PCBs)	Arsenic (6010B)	OCPS (8081A)	PCBs (8082)	Title 22 Metals (6010B)	Lead 6010B		
		Date	Time																	
WR 6040 59	3-part Comp	4/13/16	12:00	Soil	None	1, SS Tube												X		
51	Analyze for	4/13/16	12:10	Soil	None	1, SS Tube												X	Lab Dup	
52	OCPS 8081A	4/13/16	12:20	Soil	None	1, SS Tube												X		
53	3-part Comp	4/13/16	12:05	Soil	None	1, SS Tube												X		
54	Analyze for	4/13/16	12:15	Soil	None	1, SS Tube												X		
55	OCPS 8081A	4/13/16	12:25	Soil	None	1, SS Tube												X		
56	3-part Comp	4/13/16	12:30	Soil	None	1, SS Tube												X		
57	Analyze for	4/13/16	12:40	Soil	None	1, SS Tube												X		
58	OCPS 8081A	4/13/16	12:50	Soil	None	1, SS Tube												X		
59	3-part Comp	4/13/16	12:35	Soil	None	1, SS Tube												X		
60	Analyze for	4/13/16	12:45	Soil	None	1, SS Tube												X		
61	OCPS 8081A	4/13/16	12:55	Soil	None	1, SS Tube												X		
62	2-part Comp	4/13/16	10:50	Soil	None	1, SS Tube												X	Analyze Composite	
63		4/13/16	11:00	Soil	None	1, SS Tube												X	Composite	
64	2-part Comp	4/13/16	11:10	Soil	None	1, SS Tube												X	Analyze Composite	
65		4/13/16	11:20	Soil	None	1, SS Tube												X	Composite	
66	2-part Comp	4/13/16	11:30	Soil	None	1, SS Tube												X	Analyze Composite	
67		4/13/16	11:40	Soil	None	1, SS Tube												X	Composite	

Relinquished by	Company	Date	Time	Received by	Company	Date	Time	Container types	M=metal Tube
Chad Neptune	AECOM	4/13/2016	1600	On Trac				A=Air Bag	P=Plastic bottle
Relinquished by	Company	Date	Time	Received by	Company	Date	Time	G=Glass bottle	V=VOA vial
				<i>[Signature]</i>	ASC	4/14/16	9:10 AM		



ALPHA SCIENTIFIC CORPORATION
CHAIN OF CUSTODY RECORD

Client							Analyses Requested										T.A.T. Requested						
AECOM																	8hrs	24 hrs	48hrs				
Address																	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
1360 E Spruce Ave, Suite 101, Fresno, CA 93611																	<input type="checkbox"/> 3 days <input checked="" type="checkbox"/> Normal						
Report Attention		Phone		Fax		Sampled by												Sample Condition					
Stuart StClair		(559) 448-8222				Chad Neptune												<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact					
Project Name/No.		Project Site															<input type="checkbox"/> Sample Seals						
60483930		Church and Peach PEA																					
Client Sample ID	Lab Sample ID	Sample Collect		Matrix Type	Sample Preserv	No., type* & size of container	TPH-g	TPH-d&o	EPA 8260B (BTEX, Oxygenates)	EPA 8260B (VOCs)	EPA 8270C (SVOCs)	CAM Metals	EPA 8082 (PCBs)	Arsenic (6010B)	OCPs (8081A)	PCBs (8082)	Title 22 Metals (6010B)	Remark					
		Date	Time																				
UR 6040 -68	59	EW-1-0.5'	4/13/16	9:15	Soil	None	1, SS Tube							X	X								
69		EW-1-2.0'	4/13/16	9:20	Soil	None	1, SS Tube							X	X								
70		EW-2-0.5'	4/13/16	9:25	Soil	None	1, SS Tube							X	X								
71		EW-2-2.0'	4/13/16	9:30	Soil	None	1, SS Tube							X	X								
72		EW-3-0.5'	4/13/16	9:35	Soil	None	1, SS Tube							X	X								
73		EW-3-2.0'	4/13/16	9:40	Soil	None	1, SS Tube							X	X								
74		EW-4-0.5'	4/13/16	9:45	Soil	None	1, SS Tube							X	X								
75		EW-4-2.0'	4/13/16	9:50	Soil	None	1, SS Tube							X	X								
76		MW-1	4/12/16	15:30	Water	None	10, Bottles	X	X	X				✓	X	X	X						
77		MW-2	4/13/16	13:45	Water	None	10, Bottles	X	X	X				✓	X	X	X						
Relinquished by							Company		Date	Time	Received by							Company		Date	Time	Container types: M=metal Tube A=Air Bag P=Plastic bottle G=Glass bottle V=VOA vial	
Chad Neptune							AECOM		4/13/2016	1600	On Trac												
Relinquished by							Company		Date	Time	Received by							Company		Date	Time		
											[Signature]							ASC		4/14/16	9:10 Am		

8015M
8015M
EPA 8260B (BTEX, Oxygenates)
EPA 8260B (VOCs)
EPA 8270C (SVOCs)
CAM Metals
EPA 8082 (PCBs)
Arsenic (6010B)
OCPs (8081A)
PCBs (8082)
Title 22 Metals (6010B)
Lead 6010B



Alpha Scientific Corporation
Environmental Laboratories

04-26-2016

Mr. Stuart St. Clair
AECOM / URS Corporation
1360 E. Spruce Ave, Suite 101
Fresno, CA 93720

Project: 60483930
Project Site: Church and Peach PEA
Sample Date: 04-18/19-2016
Lab Job No.: UR604080

Dear Mr. St. Clair:

Enclosed please find the analytical report for the sample(s) received by Alpha Scientific Corporation on 04-20-2016 and analyzed for the following analytes:

EPA 6010B (Arsenic)
EPA 6010B (Total Lead)
EPA 8081A (Organochlorine Pesticides)
EPA 8082 (PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

Alpha Scientific Corporation is a CA DHS certified laboratory (Certificate Number 2633). Thank you for giving us the opportunity to serve you. Please feel free to call me at (562) 809-8880 if our laboratory can be of further service to you.

Sincerely,

Roger Wang, Ph. D.
Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.



Alpha Scientific Corporation
Environmental Laboratories

Client: AECOM / URS Corporation
Project: 60483930
Project Site: Church and Peach PEA
Matrix: Soil
Extraction Method: EPA 3550B
Batch No.: 0423-MS1

Lab Job No.: UR604080
Date Sampled: 04-18-2016
Date Received: 04-20-2016
Date Extracted: 04-21-2016
Date Analyzed: 04-23-2016
Date Reported: 04-26-2016

EPA 6010B (As, TTLC)
Reporting Unit: mg/kg (ppm)

Sample ID	Lab ID	Arsenic (As)	Reporting Limit
MB		ND	0.5
S-73S-0.5'	UR604080-17	0.87	0.5
S-74S-0.5'	UR604080-18	10.1	0.5
S-75S-0.5'	UR604080-19	2.6	0.5
S-76S-0.5'	UR604080-20	2.8	0.5
S-77T-0.5'	UR604080-21	1.2	0.5
S-77T-0.5' DUP	UR604080-21 DUP	1.4	0.5
S-78T-0.5'	UR604080-22	18.4	0.5
S-79T-0.5'	UR604080-23	2.1	0.5
S-80T-0.5'	UR604080-24	4.3	0.5
S-81U-0.5'	UR604080-25	2.9	0.5
S-82U-0.5'	UR604080-26	2.9	0.5
S-83U-0.5'	UR604080-27	2.7	0.5

ND: Not Detected (at the specified limit).



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
Project: 60483930
Project Site: Church and Peach PEA
Matrix: Water
Extraction Method: EPA 3550B
Batch No.: 0425-MW1

Lab Job No.: UR604080
Date Sampled: 04-19-2016
Date Received: 04-20-2016
Date Extracted: 04-25-2016
Date Analyzed: 04-25-2016
Date Reported: 04-26-2016

EPA 6010B (As, TTLC)
Reporting Unit: mg/L (ppm)

Analyte	EPA Method	Method Blank	UR604080-32					MDL	PQL
			MW-3						
Arsenic (As)	6010B	ND	ND					0.004	0.005

MDL=Method Detection Limit.
PQL=Practical Quantitation Limit.
ND= Below MDL.



Alpha Scientific Corporation
Environmental Laboratories

Client: AECOM / URS Corporation
Project: 60483930
Project Site: Church and Peach PEA
Matrix: Water
Extraction Method: EPA 3550B
Batch No.: 0423-MW1

Lab Job No.: UR604080
Date Sampled: 04-19-2016
Date Received: 04-20-2016
Date Extracted: 04-21-2016
Date Analyzed: 04-23-2016
Date Reported: 04-26-2016

EPA 6010B for Total Lead
Reporting Units: mg/kg (ppm)

Sample ID	Lab ID	Total Lead	Reporting Limit
Method Blank		ND	2
EH-1AB-0.5'	UR604080-1	ND	2
EH-2AB-0.5'	UR604080-2	8.4	2
EH-3AB-0.5'	UR604080-3	3.3	2
EH-4AB-0.5'	UR604080-4	ND	2
EH-8AC-0.5'	UR604080-9	2.5	2
EH-8AC-0.5' DUP	UR604080-9 DUP	2.7	2
EH-9AC-0.5'	UR604080-10	ND	2
EH-10AC-0.5'	UR604080-11	6.4	2
EH-11AC-0.5'	UR604080-12	5.3	2
EH-5-0.5'	UR604080-28	12.6	2
EH-6-0.5'	UR604080-29	8.0	2
EH-12-0.5'	UR604080-30	90.1	2
EH-13-0.5'	UR604080-31	11.6	2
WH-1Y-0.5'	UR604080-33	19.7	2
WH-1Y-0.5' DUP	UR604080-33 DUP	20.6	2

ND: Not Detected (at the specified limit).



Alpha Scientific Corporation
Environmental Laboratories

Client: AECOM / URS Corporation
Project: 60483930
Project Site: Church and Peach PEA
Matrix: Soil
Digestion Method: EPA 3050B
Batch No.: 0425-MS1

Lab Job No.: UR604080
Date Sampled: 04-19-2016
Date Received: 04-20-2016
Date Digested: 04-21-2016
Date Analyzed: 04-25-2016
Date Reported: 04-26-2016

EPA 6010B for Total Lead
Reporting Units: mg/kg (ppm)

Sample ID	Lab ID	Total Lead	Reporting Limit
Method Blank		ND	2
WH-2Y-0.5'	UR604080-34	9.8	2
WH-3Y-0.5'	UR604080-35	13.5	2
WH-4Y-0.5'	UR604080-36	8.6	2
WH-5Z-0.5'	UR604080-41	17.6	2
WH-6Z-0.5'	UR604080-42	21.1	2
WH-7AA-0.5'	UR604080-45	15.6	2
WH-8AA-0.5'	UR604080-46	12.7	2
WH-9AA-0.5'	UR604080-47	16.2	2
WH-10AA-0.5'	UR604080-48	8.9	2
ES-1-0.5'	UR604080-53	2.3	2
ES-1-0.5'	UR604080-53 DUP	2.5	2
ES-2-0.5'	UR604080-54	6.7	2
ES-3-0.5'	UR604080-55	2.8	2
ES-4-0.5'	UR604080-56	3.7	2
ES-5-0.5'	UR604080-57	3.8	2
ES-6-0.5'	UR604080-58	ND	2
ES-7-0.5'	UR604080-59	6.3	2
ES-8-0.5'	UR604080-60	4.6	2

ND: Not Detected (at the specified limit).



Alpha Scientific Corporation
Environmental Laboratories

Client: AECOM / URS Corporation
Project: 60483930
Project Site: Church and Peach PEA
Matrix: Water
Digestion Method: EPA 3050B
Batch No.: 0425-MW1

Lab Job No.: UR604080
Date Sampled: 04-18/19-2016
Date Received: 04-20-2016
Date Digested: 04-25-2016
Date Analyzed: 04-25-2016
Date Reported: 04-26-2016

EPA 6010B for Total Lead
Reporting Units: mg/L (ppm)

Analyte	EPA Method	Method Blank	UR604080-32	UR604080-63				MDL	PQL
			MW-3	MW-4					
Lead (Pb)	6010B	ND	ND	ND				0.005	0.010

MDL=Method Detection Limit.
PQL=Practical Quantitation Limit.
ND= Below MDL.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: AD23-PS1

Lab Job No.: UR604080
 Date Sampled: 04-18-2016
 Date Received: 04-20-2016
 Date Extracted: 04-22-2016
 Date Analyzed: 04-23-2016
 Date Reported: 04-26-2016

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: $\mu\text{g}/\text{kg}$ (ppb)

LAB SAMPLE I.D.			MB	UR604080-1,2,3,4	UR604080-5,6,7,8	UR604080-9,10,11,12	UR604080-13,14,15,16	
CLIENT SAMPLE I.D.				EH-1AB-0.5'	EH-1AB-2.5'	EH-8AC-0.5'	EH-8AC-2.5'	
DILUTION FACTOR			1	1	1	1	1	
COMPOUND	MDL	PQL						
Alpha-BHC	3	5	ND	ND	ND	ND	ND	
Gamma-BHC (Lindane)	3	5	ND	ND	ND	ND	ND	
Heptachlor	3	5	ND	ND	ND	ND	ND	
Aldrin	3	5	ND	ND	ND	ND	ND	
Beta-BHC	3	5	ND	ND	ND	ND	ND	
Delta-BHC	3	5	ND	ND	ND	ND	ND	
Heptachlor Epoxide	3	5	ND	8.7	ND	ND	ND	
Endosulfan I	3	5	ND	ND	ND	ND	ND	
4,4'-DDE	3	5	ND	ND	ND	49.2	ND	
Dieldrin	3	5	ND	ND	ND	ND	ND	
Endrin	3	5	ND	ND	ND	ND	ND	
4,4'-DDD	3	5	ND	ND	ND	ND	ND	
Endosulfan II	3	5	ND	ND	ND	ND	ND	
4,4'-DDT	3	5	ND	16.9	ND	15.8	ND	
Endrin Aldehyde	3	5	ND	ND	ND	ND	ND	
Endosulfan Sulfate	3	5	ND	ND	ND	ND	ND	
Methoxychlor	3	5	ND	ND	ND	ND	ND	
Alpha-Chlordane	3	5	ND	186	ND	ND	ND	
Gamma-Chlordane	3	5	ND	156	ND	ND	ND	
Total Chlordane	15	25	ND	816	ND	ND	ND	
Toxaphene	60	100	ND	ND	ND	ND	ND	
Endrin Ketone	30	50	ND	ND	ND	ND	ND	
Hexachlorobenzene(HCB)	200	300	ND	ND	ND	ND	ND	
Hexachlorocyclopentadiene	300	500	ND	ND	ND	ND	ND	
SURROGATE	Accept Limit%	%RC	%RC	%RC	%RC	%RC	%RC	
Surrogate Standard	60-140	101	83	90	93	107		

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
 ND=Not Detected (below DF × MDL); %RC=Percent Recovery.
 * = Obtained from a higher dilution analysis.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: AD23-PS1

Lab Job No.: UR604080
 Date Sampled: 04-18/19-2016
 Date Received: 04-20-2016
 Date Extracted: 04-22-2016
 Date Analyzed: 04-23-2016
 Date Reported: 04-26-2016

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (ppb)

LAB SAMPLE I.D.	MB	UR604080-17,18,19,20	UR604080-21,22,23,24	UR604080-25,26,27	UR604080-25,26,27 Dup	
CLIENT SAMPLE I.D.		S-73S-0.5' S-74S-0.5' S-75S-0.5' S-76S-0.5'	S-77T-0.5' S-78T-0.5' S-79T-0.5' S-80T-0.5'	S-81U-0.5' S-82U-0.5' S-83U-0.5'	S-81U-0.5' S-82U-0.5' S-83U-0.5' Dup	
DILUTION FACTOR	1	1	1	1	1	
COMPOUND	MDL	PQL				
Alpha-BHC	3	5	ND	ND	ND	ND
Gamma-BHC (Lindane)	3	5	ND	ND	ND	ND
Heptachlor	3	5	ND	ND	ND	3.5J
Aldrin	3	5	ND	ND	ND	ND
Beta-BHC	3	5	ND	ND	ND	ND
Delta-BHC	3	5	ND	ND	ND	ND
Heptachlor Epoxide	3	5	ND	3.0J	ND	ND
Endosulfan I	3	5	ND	ND	ND	ND
4,4'-DDE	3	5	ND	37.2	64.8	35.2
Dieldrin	3	5	ND	ND	ND	ND
Endrin	3	5	ND	ND	ND	ND
4,4'-DDD	3	5	ND	ND	ND	ND
Endosulfan II	3	5	ND	ND	ND	ND
4,4'-DDT	3	5	ND	73.3	54.3	44.0
Endrin Aldehyde	3	5	ND	ND	ND	ND
Endosulfan Sulfate	3	5	ND	ND	ND	ND
Methoxychlor	3	5	ND	ND	ND	ND
Alpha-Chlordane	3	5	ND	4.2J	7.2	26.5
Gamma-Chlordane	3	5	ND	6.2	7.0	26.5
Total Chlordane	15	25	ND	26.8	34.6	129
Toxaphene	60	100	ND	ND	ND	ND
Endrin Ketone	30	50	ND	ND	ND	ND
Hexachlorobenzene(HCB)	200	300	ND	ND	ND	ND
Hexachlorocyclopentadiene	300	500	ND	ND	ND	ND
SURROGATE	Accept Limit%	%RC	%RC	%RC	%RC	%RC
Surrogate Standard	60-140	101	111	90	96	96

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
 ND=Not Detected (below DF × MDL); %RC=Percent Recovery.
 J=Trace value. Result is between DF × MDL and DF × PQL.
 Note: Total Chlordane is quantified based on Technical Chlordane Standard.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: AD23-PS1

Lab Job No.: UR604080
 Date Sampled: 04-18/19-2016
 Date Received: 04-20-2016
 Date Extracted: 04-22-2016
 Date Analyzed: 04-23-2016
 Date Reported: 04-26-2016

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (ppb)

LAB SAMPLE I.D.			MB	UR604080-33,34,35,36	UR604080-37,38,39,40	UR604080-41,42	UR604080-43,44	
CLIENT SAMPLE I.D.				WH-1Y-0.5' WH-2Y-0.5' WH-3Y-0.5' WH-4Y-0.5'	WH-1Y-2.5' WH-2Y-2.5' WH-3Y-2.5' WH-4Y-2.5'	WH-5Z-0.5' WH-6Z-0.5'	WH-5Z-2.5' WH-6Z-2.5'	
DILUTION FACTOR			1	1	1	1	1	
COMPOUND	MDL	PQL						
Alpha-BHC	3	5	ND	ND	ND	ND	ND	
Gamma-BHC (Lindane)	3	5	ND	ND	ND	ND	ND	
Heptachlor	3	5	ND	ND	ND	ND	ND	
Aldrin	3	5	ND	ND	ND	ND	ND	
Beta-BHC	3	5	ND	ND	ND	ND	ND	
Delta-BHC	3	5	ND	ND	ND	ND	ND	
Heptachlor Epoxide	3	5	ND	ND	ND	ND	ND	
Endosulfan I	3	5	ND	ND	ND	ND	ND	
4,4'-DDE	3	5	ND	36.0	ND	72.0	ND	
Dieldrin	3	5	ND	ND	ND	ND	ND	
Endrin	3	5	ND	ND	ND	ND	ND	
4,4'-DDD	3	5	ND	ND	ND	ND	ND	
Endosulfan II	3	5	ND	ND	ND	ND	ND	
4,4'-DDT	3	5	ND	24.5	ND	52.5	ND	
Endrin Aldehyde	3	5	ND	ND	ND	ND	ND	
Endosulfan Sulfate	3	5	ND	ND	ND	ND	ND	
Methoxychlor	3	5	ND	ND	ND	ND	ND	
Alpha-Chlordane	3	5	ND	6.8	ND	8.6	ND	
Gamma-Chlordane	3	5	ND	4.4J	ND	7.5	ND	
Total Chlordane	15	25	ND	25.8	ND	38.5	ND	
Toxaphene	60	100	ND	ND	ND	ND	ND	
Endrin Ketone	30	50	ND	ND	ND	ND	ND	
Hexachlorobenzene(HCB)	200	300	ND	ND	ND	ND	ND	
Hexachlorocyclopentadiene	300	500	ND	ND	ND	ND	ND	
SURROGATE	Accept Limit%	%RC	%RC	%RC	%RC	%RC	%RC	
Surrogate Standard	60-140	101	100	96	91	86		

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
 ND=Not Detected (below DF × MDL); %RC=Percent Recovery.
 J=Trace value. Result is between DF × MDL and DF × PQL.
 Note: Total Chlordane is quantified based on Technical Chlordane Standard.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: AD23-PS1

Lab Job No.: UR604080
 Date Sampled: 04-18/19-2016
 Date Received: 04-20-2016
 Date Extracted: 04-22-2016
 Date Analyzed: 04-23-2016
 Date Reported: 04-26-2016

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (ppb)

LAB SAMPLE I.D.	MB	UR604080-45,46,47,48	UR604080-45,46,47,48	UR604080-49,50,51,52		
CLIENT SAMPLE I.D.		WH-7AA-0.5' WH-8AA-0.5' WH-9AA-0.5' WH-10AA-0.5"	WH-7AA-0.5' WH-8AA-0.5' WH-9AA-0.5' WH-10AA-0.5"	WH-7AA-2.5' WH-8AA-2.5' WH-9AA-2.5' WH-10AA-2.5'		
DILUTION FACTOR	1	1	1	1		
COMPOUND	MDL	PQL				
Alpha-BHC	3	5	ND	ND	ND	ND
Gamma-BHC (Lindane)	3	5	ND	ND	ND	ND
Heptachlor	3	5	ND	ND	ND	ND
Aldrin	3	5	ND	ND	ND	ND
Beta-BHC	3	5	ND	ND	ND	ND
Delta-BHC	3	5	ND	ND	ND	ND
Heptachlor Epoxide	3	5	ND	ND	ND	ND
Endosulfan I	3	5	ND	ND	ND	ND
4,4'-DDE	3	5	ND	57.8	70.5	ND
Dieldrin	3	5	ND	ND	ND	ND
Endrin	3	5	ND	ND	ND	ND
4,4'-DDD	3	5	ND	ND	ND	ND
Endosulfan II	3	5	ND	ND	ND	ND
4,4'-DDT	3	5	ND	23.5	27.7	ND
Endrin Aldehyde	3	5	ND	ND	ND	ND
Endosulfan Sulfate	3	5	ND	ND	ND	ND
Methoxychlor	3	5	ND	ND	ND	ND
Alpha-Chlordane	3	5	ND	4.7J	3.1J	ND
Gamma-Chlordane	3	5	ND	4.0J	ND	ND
Total Chlordane	15	25	ND	20.9J	12.9J	ND
Toxaphene	60	100	ND	ND	ND	ND
Endrin Ketone	30	50	ND	ND	ND	ND
Hexachlorobenzene(HCB)	200	300	ND	ND	ND	ND
Hexachlorocyclopentadiene	300	500	ND	ND	ND	ND
SURROGATE	Accept Limit%	%RC	%RC	%RC	%RC	
Surrogate Standard	60-140	101	91	102	93	

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
 ND=Not Detected (below DF × MDL); %RC=Percent Recovery,
 J=Trace value. Result is between DF × MDL and DF × PQL.
 Note: Total Chlordane is quantified based on Technical Chlordane Standard.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Water
 Extraction Method: EPA 3510C
 Batch No.: AD25-PW1

Lab Job No.: UR604080
 Date Sampled: 04-18/19-2016
 Date Received: 04-20-2016
 Date Extracted: 04-22-2016
 Date Analyzed: 04-25-2016
 Date Reported: 04-26-2016

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/L (ppb)

DATE EXTRACTED			04-22-16	04-22-16	04-22-16		
EXTRACTION METHOD			3510C	3510C	3510C		
DILUTION FACTOR			1	1	1		
LAB SAMPLE I.D.			MB	UR604080-32	UR604080-63		
CLIENT SAMPLE I.D.				MW-3	MW-4		
COMPOUND	MDL	PQL					
Alpha-BHC	0.03	0.05	ND	ND	ND		
Gamma-BHC (Lindane)	0.03	0.05	ND	ND	ND		
Heptachlor	0.03	0.05	ND	ND	ND		
Aldrin	0.03	0.05	ND	ND	ND		
Betta-BHC	0.03	0.05	ND	ND	ND		
Delta-BHC	0.03	0.05	ND	ND	ND		
Heptachlor Epoxide	0.03	0.05	ND	ND	ND		
Endosulfan I	0.03	0.05	ND	ND	ND		
4,4'-DDE	0.03	0.05	ND	ND	ND		
Dieldrin	0.03	0.05	ND	ND	ND		
Endrin	0.03	0.05	ND	ND	ND		
4,4'-DDD	0.03	0.05	ND	ND	ND		
Endosulfan II	0.03	0.05	ND	ND	ND		
4,4'-DDT	0.03	0.05	ND	ND	ND		
Endrin Aldehyde	0.03	0.05	ND	ND	ND		
Endosulfan Sulfate	0.03	0.05	ND	ND	ND		
Methoxychlor	0.03	0.05	ND	ND	ND		
Chlordane	0.25	0.50	ND	ND	ND		
Toxaphene	1.0	2.0	ND	ND	ND		
SURROGATE	Accept Limit%		%RC	%RC	%RC		
Surrogate Standard	60-140		103	76	89		

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;

ND=Not Detected (below DF × MDL)

J= Trace value. Result is lower than DF × PQL but higher than DF × MDL.

Note: High dilution factor is used due to limited sample volume.



Alpha Scientific Corporation
Environmental Laboratories

Client: AECOM / URS Corporation
Project: 60483930
Project Site: Church and Peach PEA
Matrix: Soil
Extraction Method: EPA 3550B
Batch No. AD22-PCBS1

Lab Job No.: UR604080
Date Sampled: 04-18/19-2016
Date Received: 04-20-2016
Date Extracted: 04-21-2016
Date Analyzed: 04-23-2016
Date Reported: 04-26-2016

EPA 8082 (PCB's)
Reporting Unit: mg/kg (ppm)

Sample ID	Lab ID	DF	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260
Reporting Limit (RL)			0.05	0.05	0.05	0.05	0.05	0.05	0.05
Method Blank		1	ND	ND	ND	ND	ND	ND	ND
WH-11-0.5'	UR604080-61	1	ND	ND	ND	ND	ND	ND	ND

MB: Method Blank;
ND: Not Detected (below DF × RL).



Alpha Scientific Corporation
Environmental Laboratories

Client: AECOM / URS Corporation
Project: 60483930
Project Site: Church and Peach PEA
Matrix: Water
Extraction Method: EPA 3510C
Batch No.: AD25-PCBW1

Lab Job No.: UR604080
Date Sampled: 04-18/19-2016
Date Received: 04-20-2016
Date Extracted: 04-22-2016
Date Analyzed: 04-25-2016
Date Reported: 04-26-2016

EPA 8082 (PCB's)
Reporting Unit: µg/L (ppb)

Sample ID	Lab ID	DF	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260
MDL			1.0	1.0	1.0	1.0	1.0	1.0	1.0
PQL			2.0	2.0	2.0	2.0	2.0	2.0	2.0
Method Blank		1	ND	ND	ND	ND	ND	ND	ND
MW-4	UR604080-63	1	ND	ND	ND	ND	ND	ND	ND

MDL: Method Detection Limit;
PQL: Practical Quantitation Limit.
MB: Method Blank;
ND: Not Detected (below DF × MDL).



Alpha Scientific Corporation

Environmental Laboratories

04-26-2016

EPA 6010B(Lead) Batch QA/QC Report

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Soil
Batch No.: 0421-MS1

Lab Job No.: UR604080
Lab Sample ID: UR604080-10
Date Analyzed: 04-21-2016

I. MS/MSD Report Unit: ppm

Analyte	EPA Method	MB Conc.	Spike Conc.	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Lead (Pb)	6010B	ND	4.0	104.5	109.5	4.6	30	70-130

II. LCS Result Unit: ppm

Analyte	EPA Method	LCS Value	True Value	Rec.%	Accept. Limit
Lead (Pb)	6010B	3.510	4.0	87.8	80-120

ND: Not Detected.



Alpha Scientific Corporation
Environmental Laboratories

04-26-2016

**EPA 6010B(Lead)
Batch QA/QC Report**

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Soil
Batch No.: 0425-MS1

Lab Job No.: UR604080
Lab Sample ID: UR604080-48
Date Analyzed: 04-25-2016

**I. MS/MSD Report
Unit: ppm**

Analyte	EPA Method	MB Conc.	Spike Conc.	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Lead (Pb)	6010B	ND	4.0	107.1	104.8	2.1	30	70-130

**II. LCS Result
Unit: ppm**

Analyte	EPA Method	LCS Value	True Value	Rec.%	Accept. Limit
Lead (Pb)	6010B	4.408	4.0	110.2	80-120

ND: Not Detected.



Alpha Scientific Corporation
Environmental Laboratories

04-26-2016

**EPA 6010B(Arsenic)
Batch QA/QC Report**

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Soil
Batch No.: 0423-MS1

Lab Job No.: UR604080
Lab Sample I.D.: UR604080-20
Date Analyzed: 04-23-2016

**I. MS/MSD Report
Unit: ppm**

Analyte	EPA Method	MB Conc.	Spike Conc.	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Arsenic (As)	6010B	ND	4.0	113.6	118.3	4.0	30	70-130

**II. LCS Result
Unit: ppm**

Analyte	EPA Method	LCS Value	True Value	Rec.%	Accept. Limit
Arsenic (As)	6010B	3.940	4.0	98.5	80-120

ND: Not Detected.



Alpha Scientific Corporation
Environmental Laboratories

04-26-2016

**EPA 6010B for Metals (TTLC)
Batch QA/QC Report**

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Water
Batch No.: 0425-MW1

Lab Job No.: UR604080
Lab Sample I.D.: PI604092-1
Date Analyzed: 04-25-2016

**I. MS/MSD Report
Unit: ppm**

Analyte	EPA Method	MB Conc.	Spike Conc.	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec. Accept. Limit
Arsenic (As)	6010B	ND	0.1	112.4	110.1	2.1	30	70-130
Lead (Pb)	6010B	ND	0.1	72.2	72.8	0.7	30	70-130

**II. LCS Result
Unit: ppm**

Analyte	EPA Method	LCS Value	True Value	Rec.%	Accept. Limit
Arsenic (As)	6010B	0.1025	0.1	102.5	80-120
Lead (Pb)	6010B	0.1043	0.1	104.3	80-120

ND: Not Detected.
ND: Not Detected.



Alpha Scientific Corporation
Environmental Laboratories

**EPA 8081A (Pesticides)
Batch QA/QC Report**

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Soil
Batch No.: AD23-PS1

Lab Job No.: UR604080
Lab Sample I.D.: UR604080-5-8
Date Analyzed: 04-23-2016

I. MS/MSD Report
Unit: ppb

Analyte	Method Blank	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Gamma-BHC	ND	20	22.9	23.3	114.5	116.5	1.7	30	46-127
Heptachlor	ND	20	20.5	20.9	102.5	104.5	1.9	30	31-134
Aldrin	ND	20	15.6	16.2	78.0	81.0	3.8	30	36-132
Dieldrin	ND	20	15.3	15.8	76.5	79.0	3.2	30	21-134
Endrin	ND	20	16.0	16.1	80.0	80.5	0.6	30	42-139
4,4'-DDT	ND	20	17.9	18.9	89.5	94.5	5.4	30	21-134

II. LCS Result
Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	Accept. Limit
Gamma-BHC	22.3	20	111.5	80-120
Heptachlor	21.3	20	106.5	80-120
Aldrin	17.1	20	85.5	80-120
Dieldrin	17.6	20	88.0	80-120
Endrin	16.1	20	80.5	80-120
4,4'-DDT	21.6	20	108.0	80-120

ND: Not Detected.



Alpha Scientific Corporation
Environmental Laboratories

04-26-2016

**EPA 8081A (Pesticides)
Batch QA/QC Report**

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Water
EBatch No.: AD25-PW1

Lab Job No.: UR604080
Lab Sample I.D.: WS604025-1
Date Analyzed: 04-25-2016

MS/MSD Report
Unit: ppb

Analyte	Method Blank	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Gamma-BHC	ND	2.0	2.21	2.24	110.5	112.0	1.3	30	46-127
Heptachlor	ND	2.0	2.14	2.16	107.0	108.0	0.9	30	31-134
Aldrin	ND	2.0	1.71	1.76	85.5	88.0	2.9	30	36-132
Dieldrin	ND	2.0	1.76	1.78	88.0	89.0	1.1	30	21-134
Endrin	ND	2.0	1.66	1.63	83.0	81.5	1.8	30	42-139
4,4'-DDT	ND	2.0	2.06	2.12	103.0	106.0	2.9	30	21-139

II. LCS Result
Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	Accept. Limit
Gamma-BHC	2.26	2.0	113.0	80-120
Heptachlor	2.13	2.0	106.5	80-120
Aldrin	1.76	2.0	88.0	80-120
Dieldrin	1.79	2.0	89.5	80-120
Endrin	1.60	2.0	80.0	80-120
4,4'-DDT	1.99	2.0	99.5	80-120

ND: Not Detected.



Alpha Scientific Corporation
Environmental Laboratories

04-26-2016

EPA 8082
Batch QA/QC Report

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Soil
Batch No. AD22-PCBS1

Lab Job No.: UR604080
Lab Sample I.D.: PI604090-1
Date Analyzed: 04-22-2016

I. MS/MSD Report
Unit: ppb

Analyte	Method Blank	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
1016	ND	500	457	452	91.4	90.4	1.1	30	46-127
1260	ND	500	507	494	101.4	98.8	2.6	30	31-134

II. LCS Result
Unit: ppb

Compound	LCS Report Value	True Value	Rec.%	Accept. Limit
1016	467	500	93.4	80-120
1260	525	500	105.0	80-120

ND: Not Detected (at the specified limit).



Alpha Scientific Corporation
Environmental Laboratories

04-26-2016

EPA 8082
Batch QA/QC Report

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Water
Batch No. AD25-PCBW1

Lab Job No.: UR604080
Lab Sample I.D.: WS604025-1
Date Analyzed: 04-25-2016

I. MS/MSD Report
Unit: ppb

Analyte	Method Blank	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	%RPD	%RPD Accept. Limit	%Rec Accept. Limit
1016	ND	5.0	4.57	4.42	91.4	88.4	3.3	30	46-127
1260	ND	5.0	5.09	4.93	101.8	98.6	3.2	30	31-134

II. LCS Result
Unit: ppb

Compound	LCS Report Value	True Value	Rec.%	Accept. Limit
1016	4.65	5.0	93.0	80-120
1260	5.17	5.0	103.4	80-120

ND: Not Detected (at the specified limit).



Alpha Scientific Corporation

Environmental Laboratories

MultiLevel Quality Control Sign Off (Soil Sample)

Sample Preparation	Extraction/DigestionPreparation according to SOP# ASC3550B-1			
HT met: HT Date(s): <u>05-02/03-2016</u> Ext. Date: <u>04-22-2016</u>	Yes: **	No:	NA:	
Sample container Labels checked at all stages	Yes: **	No:	NA:	
Sample preservation checked	Yes: **	No:	NA:	
Sample preservation acceptable:	Yes: **	No:	NA:	
Sufficient sample provided for method QC:	Yes: **	No:	NA:	
Proper number of QC samples performed per method:	Yes: **	No:	NA:	
Specific QC requirements of client performed:	Yes **	No:	NA:	
Were soil samples corrected for % moisture:	Yes	No: **	NA:	
Proper number of blanks performed:	Yes: **	No:	NA:	
Brought to final volume and labeled properly:	Yes: **	No:	NA:	
Entered information into proper lab notebooks:	Yes: **	No:	NA:	
Deviations to any of the above items:	Yes:	No: **	NA:	
Reasons/explanation for deviation & supervisors initial:				
Name of technician(s) or chemist/Date GG /04-26-2016				
Name of reviewer/Date Sue /04-26-2016				
Comments:				
Instrumentation Analyses	Samples analyzed according to SOP# ASC8081-1			
Holding time met for all analyses:	Yes: **	No:	NA:	
Calibrations include all pertinent analytes:	Yes: **	No:	NA:	
Initial calibration in control:	Yes: **	No:	NA:	
Second source calibrations in control:	Yes: **	No:	NA:	
LCS(/LCSD) passes:	Yes: **	No:	NA:	
Method blank/calibration blank passes:	Yes: **	No:	NA:	
Matrix Duplicate and MS/MSD passes:	Yes: **	No:	NA:	
Surrogate passes:	Yes: **	No: .	NA:	
Results transcribed correctly from raw data:	Yes: **	No:	NA:	
Do the dilutions agree?	Yes: **	No:	NA:	
Were soil samples corrected for % moisture:	Yes:	No: **	NA:	
Manual integration 2nd level review:	Yes:	No:	NA: **	
Deviations to any of the above items:	Yes:	No: **	NA:	
Reasons/explanation for deviation & supervisors initial:				
Name of analyst(s)/Date: GG /04-26-2016				
Name of Data entry/Date: GG /04-26-2016				
Name of reviewer/Date: Sue/ 04-26-2016				
Comments:				



Alpha Scientific Corporation

Environmental Laboratories

MultiLevel Quality Control Sign Off (Soil Sample)

Sample Preparation		Extraction/DigestionPreparation according to SOP# ASC3050B-1/ASC7471-1		
HT met: HT Date(s): <u>10-15/16-2016</u> Ext. Date: <u>04-21-2016</u>	Yes: **	No:	NA:	
Sample container Labels checked at all stages	Yes: **	No:	NA:	
Sample preservation checked	Yes: **	No:	NA:	
Sample preservation acceptable:	Yes: **	No:	NA:	
Sufficient sample provided for method QC:	Yes: **	No:	NA:	
Proper number of QC samples performed per method:	Yes: **	No:	NA:	
Specific QC requirements of client performed:	Yes **	No:	NA:	
Were soil samples corrected for % moisture:	Yes	No: **	NA:	
Proper number of blanks performed:	Yes: **	No:	NA:	
Brought to final volume and labeled properly:	Yes: **	No:	NA:	
Entered information into proper lab notebooks:	Yes: **	No:	NA:	
Deviations to any of the above items:	Yes:	No: **	NA:	
Reasons/explanation for deviation & supervisors initial:				
Name of technician(s) or chemist/Date GG /04-26-2016				
Name of reviewer/Date Sue/ 04-26-2016				
Comments:				
Instrumentation Analyses		Samples analyzed according to SOP# ASC6010B-1/ASC7471-1		
Holding time met for all analyses:	Yes: **	No:	NA:	
Calibrations include all pertinent analytes:	Yes: **	No:	NA:	
Initial calibration in control:	Yes: **	No:	NA:	
Second source calibrations in control:	Yes: **	No:	NA:	
LCS(/LCSD) passes:	Yes: **	No:	NA:	
Method blank/calibration blank passes:	Yes: **	No:	NA:	
Matrix Duplicate and MS/MSD passes:	Yes: **	No:	NA:	
Surrogate passes:	Yes:	No:	NA: **	
Results transcribed correctly from raw data:	Yes: **	No:	NA:	
Do the dilutions agree?	Yes: **	No:	NA:	
Were soil samples corrected for % moisture:	Yes:	No: **	NA:	
Manual integration 2nd level review:	Yes:	No:	NA: **	
Deviations to any of the above items:	Yes:	No: **	NA:	
Reasons/explanation for deviation & supervisors initial:				
Name of analyst(s)/Date: GG /04-26-2016				
Name of Data entry/Date: GG /04-26-2016				
Name of reviewer/Date: Sue/ 04-26-2016				
Comments:				



Alpha Scientific Corporation

Environmental Laboratories

MultiLevel Quality Control Sign Off (Water Sample)

Sample Preparation		Extraction/DigestionPreparation according to SOP# ASC3510C-1			
HT met: HT Date(s): <u>05-02-2016</u> Ext. Date: <u>04-22-2016</u>	Yes: **	No:	NA:		
Sample container Labels checked at all stages	Yes: **	No:	NA:		
Sample preservation checked	Yes: **	No:	NA:		
Sample preservation acceptable:	Yes: **	No:	NA:		
Sufficient sample provided for method QC:	Yes: **	No:	NA:		
Proper number of QC samples performed per method:	Yes: **	No:	NA:		
Specific QC requirements of client performed:	Yes **	No:	NA:		
Were soil samples corrected for % moisture:	Yes	No: **	NA:		
Proper number of blanks performed:	Yes: **	No:	NA:		
Brought to final volume and labeled properly:	Yes: **	No:	NA:		
Entered information into proper lab notebooks:	Yes: **	No:	NA:		
Deviations to any of the above items:	Yes:	No: **	NA:		
Reasons/explanation for deviation & supervisors initial:					
Name of technician(s) or chemist/Date GG /04-26-2016					
Name of reviewer/Date Sue /04-26-2016					
Comments:					
Instrumentation Analyses		Samples analyzed according to SOP# ASC8081/8270-1/TPH			
Holding time met for all analyses:	Yes: **	No:	NA:		
Calibrations include all pertinent analytes:	Yes: **	No:	NA:		
Initial calibration in control:	Yes: **	No:	NA:		
Second source calibrations in control:	Yes: **	No:	NA:		
LCS/(LCSD) passes:	Yes: **	No:	NA:		
Method blank/calibration blank passes:	Yes: **	No:	NA:		
Matrix Duplicate and MS/MSD passes:	Yes: **	No:	NA:		
Surrogate passes:	Yes: **	No:	NA:		
Results transcribed correctly from raw data:	Yes: **	No:	NA:		
Do the dilutions agree?	Yes: **	No:	NA:		
Were soil samples corrected for % moisture:	Yes:	No: **	NA:		
Manual integration 2nd level review:	Yes:	No:	NA: **		
Deviations to any of the above items:	Yes:	No: **	NA:		
Reasons/explanation for deviation & supervisors initial:					
Name of analyst(s)/Date: GG /04-26-2016					
Name of Data entry/Date: GG /04-26-2016					
Name of reviewer/Date: Sue/ 04-26-2016					
Comments:					



Alpha Scientific Corporation

Environmental Laboratories

MultiLevel Quality Control Sign Off (Water Sample)

Sample Preparation		Extraction/DigestionPreparation according to SOP# ASC3010C-1/ASC7470-1		
HT met: HT Date(s): <u>10-15-2016</u> Ext. Date: <u>04-25-2016</u>	Yes: **	No:	NA:	
Sample container Labels checked at all stages	Yes: **	No:	NA:	
Sample preservation checked	Yes: **	No:	NA:	
Sample preservation acceptable:	Yes: **	No:	NA:	
Sufficient sample provided for method QC:	Yes: **	No:	NA:	
Proper number of QC samples performed per method:	Yes: **	No:	NA:	
Specific QC requirements of client performed:	Yes **	No:	NA:	
Were soil samples corrected for % moisture:	Yes	No: **	NA:	
Proper number of blanks performed:	Yes: **	No:	NA:	
Brought to final volume and labeled properly:	Yes: **	No:	NA:	
Entered information into proper lab notebooks:	Yes: **	No:	NA:	
Deviations to any of the above items:	Yes:	No: **	NA:	
Reasons/explanation for deviation & supervisors initial:				
Name of technician(s) or chemist/Date GG /04-26-2016				
Name of reviewer/Date Sue/ 04-26-2016				
Comments:				
Instrumentation Analyses		Samples analyzed according to SOP# ASC6010B-1/ASC7470-1		
Holding time met for all analyses:	Yes: **	No:	NA:	
Calibrations include all pertinent analytes:	Yes: **	No:	NA:	
Initial calibration in control:	Yes: **	No:	NA:	
Second source calibrations in control:	Yes: **	No:	NA:	
LCS(/LCSD) passes:	Yes: **	No:	NA:	
Method blank/calibration blank passes:	Yes: **	No:	NA:	
Matrix Duplicate and MS/MSD passes:	Yes: **	No:	NA:	
Surrogate passes:	Yes:	No:	NA: **	
Results transcribed correctly from raw data:	Yes: **	No:	NA:	
Do the dilutions agree?	Yes: **	No:	NA:	
Were soil samples corrected for % moisture:	Yes:	No: **	NA:	
Manual integration 2nd level review:	Yes:	No:	NA: **	
Deviations to any of the above items:	Yes:	No: **	NA:	
Reasons/explanation for deviation & supervisors initial:				
Name of analyst(s)/Date: GG /04-26-2016				
Name of Data entry/Date: GG /04-26-2016				
Name of reviewer/Date: Sue/ 04-26-2016				
Comments:				



ALPHA SCIENTIFIC CORPORATION
CHAIN OF CUSTODY RECORD

Client							Analyses Requested											T.A.T. Requested			
AECOM																		<input type="checkbox"/> 8hrs <input type="checkbox"/> 24 hrs <input type="checkbox"/> 48hrs <input type="checkbox"/> 3 days <input checked="" type="checkbox"/> Normal			
Address																		Sample Condition			
1360 E Spruce Ave, Suite 101, Fresno, CA 93611																		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seals			
Report Attention		Phone		Fax		Sampled by													Remark		
Stuart StClair		(559) 448-8222				Chad Neptune															
Project Name/No.		Project Site																			
60483930		Church and Peach PEA																			
Client Sample ID	Lab Sample ID	Sample Collect		Matrix Type	Sample Preserv	No., type* & size of container	TPH-g	TPH-d&o	EPA 8260B (BTEX, Oxygenates)	EPA 8260B (VOCs)	EPA 8270C (SVOCs)	CAM Metals	EPA 8082 (PCBs)	Arsenic (6010B)	OCPs (8081A)	PCBs (8082)	Title 22 Metals (6010B)	Lead 6010B			
		Date	Time																		
-1	EH-1AB-0.5'	4-part	4/18/16	14:30	Soil	None	1	SSS										X			
-2	EH-2AB-0.5'	Composite	4/18/16	15:05	Soil	None	1	SSS										X			
-3	EH-3AB-0.5'	Analyte for	4/18/16	15:52	Soil	None	1	SSS										X			
-4	EH-4AB-0.5'	OCPs 8081A	4/18/16	14:02	Soil	None	1	SSS										X			
-5	EH-1AB-2.5'	4-part	4/18/16	14:45	Soil	None	1	SSS													
-6	EH-2AB-2.5'	Composite	4/18/16	15:10	Soil	None	1	SSS													
-7	EH-3AB-2.5'	Analyte for	4/18/16	16:00	Soil	None	1	SSS													
-8	EH-4AB-2.5'	OCPs 8081A	4/18/16	14:15	Soil	None	1	SSS													
-9	EH-8AC-0.5'	4-part	4/18/16	15:40	Soil	None	1	SSS										X	Lab Duplicate		
-10	EH-9AC-0.5'	Composite	4/18/16	15:25	Soil	None	1	SSS										X			
-11	EH-10AC-0.5'	Analyte for	4/18/16	16:15	Soil	None	1	SSS										X			
-12	EH-11AC-0.5'	OCPs 8081A	4/18/16	16:40	Soil	None	1	SSS										X			
-13	EH-8AC-2.5'	4-part	4/18/16	15:46	Soil	None	1	SSS													
-14	EH-9AC-2.5'	Composite	4/18/16	15:30	Soil	None	1	SSS													
-15	EH-10AC-2.5'	Analyte for	4/18/16	16:30	Soil	None	1	SSS													
-16	EH-11AC-2.5'	OCPs 8081A	4/18/16	16:45	Soil	None	1	SSS													

UR
6040

Lab Duplicate

Lead 6010B

Relinquished by	Company	Date	Time	Received by	Company	Date	Time	Container types: M=metal Tube A=Air Bag P=Plastic bottle G=Glass bottle V=VOA vial	
Chad Neptune	AECOM	4/19/2016	1600	On Trac					
Relinquished by	Company	Date	Time	Received by	Company	Date	Time		
				<i>[Signature]</i>	ASC	4/20/16	9:38Am		



ALPHA SCIENTIFIC CORPORATION
CHAIN OF CUSTODY RECORD

Client								Analyses Requested										T.A.T. Requested		
AECOM																		<input type="checkbox"/> 8hrs <input type="checkbox"/> 24 hrs <input type="checkbox"/> 48hrs <input type="checkbox"/> 3 days <input checked="" type="checkbox"/> Normal		
Address																		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seals		
1360 E Spruce Ave, Suite 101, Fresno, CA 93611																		Remark		
Report Attention		Phone		Fax		Sampled by														
Stuart StClair		(559) 448-8222				Chad Neptune														
Project Name/No.		Project Site																		
60483930		Church and Peach PEA																		
Client Sample ID	Lab Sample ID	Sample Collect		Matrix Type	Sample Preserv	No., type* & size of container	TPH-g	TPH-d&o	EPA 8260B (BTEX, Oxygenates)	EPA 8260B (VOCs)	EPA 8270C (SVOCs)	CAM Metals	EPA 8082 (PCBs)	Arsenic (6010B)	OCPs (8081A)	PCBs (8082)	Title 22 Metals (6010B)	Lead 6010B	Remark	
		Date	Time																	
-17	S-73S-0.5'	4-part Composite Analyze for OCPs 8081A	4/18/16	10:45	Soil	None	1, 4oz, Jar													
-18	S-74S-0.5'		4/18/16	10:55	Soil	None	1, 4oz, Jar							X						
-19	S-75S-0.5'		4/18/16	11:05	Soil	None	1, 4oz, Jar							X						
-20	S-76S-0.5'		4/18/16	11:15	Soil	None	1, 4oz, Jar							X						
-21	S-77T-0.5'	4-part Composite Analyze for OCPs 8081A	4/18/16	11:25	Soil	None	1, 4oz, Jar							X					Lab Dup	
-22	S-78T-0.5'		4/18/16	11:35	Soil	None	1, 4oz, Jar							X						
-23	S-79T-0.5'		4/18/16	11:45	Soil	None	1, 4oz, Jar							X						
-24	S-80T-0.5'		4/18/16	11:55	Soil	None	1, 4oz, Jar							X						
-25	S-81U-0.5'	3-part Composite Analyze for OCPs 8081A Lab Dup	4/18/16	12:05	Soil	None	1, 4oz, Jar							X						
-26	S-82U-0.5'		4/18/16	12:15	Soil	None	1, 4oz, Jar							X						
-27	S-83U-0.5'		4/18/16	12:25	Soil	None	1, 4oz, Jar							X						
-28	EH-5-0.5'		4/18/16	13:00	Soil	None	1, 4oz, Jar											X		
-29	EH-6-0.5'		4/18/16	13:15	Soil	None	1, 4oz, Jar											X		
-30	EH-12-0.5'		4/18/16	13:25	Soil	None	1, 4oz, Jar											X		
-31	EH-13-0.5'		4/18/16	13:30	Soil	None	1, 4oz, Jar											X		
-32	MW-3		4/18/16	17:00	Soil	None	10, Bottles							X	X			X		

UR
6040
80

Relinquished by	Company	Date	Time	Received by	Company	Date	Time	Container types: A=Air Bag M=metal Tube P=Plastic bottle G=Glass bottle V=VOA vial
Chad Neptune	AECOM	4/19/2016	1600	On Trac				
Relinquished by	Company	Date	Time	Received by	Company	Date	Time	
				<i>[Signature]</i>	ASC	4/20/16	9:35 AM	



Client							Analyses Requested											T.A.T. Requested				
AECOM																		<input type="checkbox"/> 8hrs <input type="checkbox"/> 24 hrs <input type="checkbox"/> 48hrs <input type="checkbox"/> 3 days <input checked="" type="checkbox"/> Normal				
Address																		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seals				
Report Attention		Phone		Fax		Sampled by														Remark		
Stuart StClair		(559) 448-8222				Chad Neptune																
Project Name/No.		Project Site																				
60483930		Church and Peach PEA																				
Client Sample ID	Lab Sample ID	Sample Collect		Matrix Type	Sample Preserv	No., type* & size of container	TPH-g	TPH-d&o	EPA 8260B (BTEX, Oxygenates)	EPA 8260B (VOCs)	EPA 8270C (SVOCs)	CAM Metals	EPA 8082 (PCBs)	Arsenic (6010B)	OCPs (8081A)	PCBs (8082)	Title 22 Metals (6010B)	Lead (6010B)				
		Date	Time																			
2LR 6040 SC -33	WH-1Y-0.5'	4-part Comp	4/19/16	9:51	Soil	None	1, 4oz, Jar												X	Lab Dup		
-34	WH-2Y-0.5'	Analyze for	4/19/16	11:20	Soil	None	1, 4oz, Jar												X			
-35	WH-3Y-0.5'	OCPs (8081A)	4/19/16	11:15	Soil	None	1, 4oz, Jar												X			
-36	WH-4Y-0.5'		4/19/16	9:34	Soil	None	1, 4oz, Jar												X			
-37	WH-1Y-2.5'	4-part Comp	4/19/16	10:37	Soil	None	1, SSS															
-38	WH-2Y-2.5'	Analyze for	4/19/16	11:25	Soil	None	1, SSS															
-39	WH-3Y-2.5'	OCPs (8081A)	4/19/16	11:10	Soil	None	1, SSS															
-40	WH-4Y-2.5'		4/19/16	10:25	Soil	None	1, SSS															
-41	WH-5Z-0.5'	2-part Comp	4/19/16	10:02	Soil	None	1, 4oz, Jar												XX			
-42	WH-6Z-0.5'	Analyze (OCPs 8081A)	4/19/16	10:15	Soil	None	1, 4oz, Jar												XX			
-43	WH-5Z-2.5'	2-part Comp	4/19/16	10:40	Soil	None	1, SSS															
-44	WH-6Z-2.5'	Analyze OCPs (8081A)	4/19/16	10:45	Soil	None	1, SSS															
-45	WH-7AA-0.5'	4-part Comp	4/19/16	10:46	Soil	None	1, 4oz, Jar												XX			
-46	WH-8AA-0.5'	Analyze for	4/19/16	10:55	Soil	None	1, 4oz, Jar												XX			
-47	WH-9AA-0.5'	OCPs (8081A)	4/19/16	12:25	Soil	None	1, 4oz, Jar												XX			
-48	WH-10AA-0.5'	Lab Dup	4/19/16	11:00	Soil	None	1, 4oz, Jar												X			

Relinquished by	Company	Date	Time	Received by	Company	Date	Time	Container types: M=metal Tube A=Air Bag P=Plastic bottle G=Glass bottle V=VOA vial
Chad Neptune	AECOM	4/19/2016	1600	On Trac				
Relinquished by	Company	Date	Time	Received by	Company	Date	Time	
				<i>[Signature]</i>	ASC	4/20/16	9:35 AM	

ascorp@verizon.net

16760 Gridley Road
Cerritos, CA 90703

Tel: (562) 809-8880
Fax: (562) 809-8801



ALPHA SCIENTIFIC CORPORATION

CHAIN OF CUSTODY RECORD

Lab Job Number URL04080

Client								Analyses Requested										T.A.T. Requested		
AECOM																		8hrs <input type="checkbox"/> 24 hrs <input type="checkbox"/> 48hrs <input type="checkbox"/>		
Address																		<input type="checkbox"/> 3 days <input checked="" type="checkbox"/> Normal		
1360 E Spruce Ave, Suite 101, Fresno, CA 93611																		Sample Condition		
Report Attention		Phone		Fax		Sampled by												<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact		
Stuart StClair		(559) 448-8222				Chad Neptune												<input type="checkbox"/> Sample Seals		
Project Name/No.		Project Site																Remark		
60483930		Church and Peach PEA																		
Client Sample ID	Lab Sample ID	Sample Collect		Matrix Type	Sample Preserv	No., type* & size of container	TPH-g	TPH-d&o	EPA 8260B (BTEX, Oxygenates)	EPA 8260B (VOCs)	EPA 8270C (SVOCs)	CAM Metals	EPA 8082 (PCBs)	Arsenic (6010B)	OCPs (8081A)	PCBs (8082)	Title 22 Metals (6010B)	Lead (6010B)		
		Date	Time																	
UR 604 080 -49 WH-7AA-2.5'	UPART COUNT	4/19/16	10:50	Soil	None	1, SSS														
-50 WH-8AA-2.5'	Analyze for OCPs (8081A)	4/19/16	10:55	Soil	None	1, SSS														
-51 WH-9AA-2.5'		4/19/16	12:30	Soil	None	1, SSS														
-52 WH-10AA-2.5'		4/19/16	11:00	Soil	None	1, SSS														
-53 ES-1-0.5'		4/19/16	11:50	Soil	None	1, 4oz, Jar												X	Lab Dup	
-54 ES-2-0.5'		4/19/16	11:55	Soil	None	1, 4oz, Jar												X		
-55 ES-3-0.5'		4/19/16	12:00	Soil	None	1, 4oz, Jar												X		
-56 ES-4-0.5'		4/19/16	12:05	Soil	None	1, 4oz, Jar												X		
-57 ES-5-0.5'		4/19/16	12:10	Soil	None	1, 4oz, Jar												X		
-58 ES-6-0.5'		4/19/16	12:15	Soil	None	1, 4oz, Jar												X		
-59 ES-7-0.5'		4/19/16	12:20	Soil	None	1, 4oz, Jar												X		
-60 ES-8-0.5'		4/19/16	12:25	Soil	None	1, 4oz, Jar												X		
-61 WH-11-0.5'		4/19/16	9:15	Soil	None	1, 4oz, Jar							X							
-62 WH-11-2.5'		4/19/16	9:25	Soil	None	1, SSS							X						hold	
663 MW-4		4/19/16	14:30	Soil	None	12, Bottles							X	X				X		

Relinquished by	Company	Date	Time	Received by	Company	Date	Time	Container types M=metal Tube A=Air Bag P=Plastic bottle G=Glass bottle V=VOA vial
Chad Neptune	AECOM	4/19/2016	1600	On Trac				
Relinquished by	Company	Date	Time	Received by	Company	Date	Time	
				<i>[Signature]</i>	ABC	4/20/16	5:35 PM	



Alpha Scientific Corporation
Environmental Laboratories

05-12-2016

Mr. Stuart St. Clair
AECOM / URS Corporation
1360 E. Spruce Ave, Suite 101
Fresno, CA 93720

Project: 60483930
Project Site: Church and Peach PEA
Sample Date: 04-18-2016
Lab Job No.: UR604080A

Dear Mr. St. Clair:

Enclosed please find the analytical report for the sample(s) received by Alpha Scientific Corporation on 04-20-2016 and analyzed for the following analytes:

EPA 8081A (Organochlorine Pesticides)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

Alpha Scientific Corporation is a CA DHS certified laboratory (Certificate Number 2633). Thank you for giving us the opportunity to serve you. Please feel free to call me at (562) 809-8880 if our laboratory can be of further service to you.

Sincerely,

Roger Wang, Ph. D.
Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: AD27-PS1

Lab Job No.: UR604080A
 Date Sampled: 04-18-2016
 Date Received: 04-20-2016
 Date Extracted: 04-26-2016
 Date Analyzed: 04-27-2016
 Date Reported: 04-28-2016

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (ppb)

LAB SAMPLE I.D.			MB	UR604080-1	UR604080-2	UR604080-3	UR604080-4
CLIENT SAMPLE I.D.				EH-1AB-0.5'	EH-2AB-0.5'	EH-3AB-0.5'	EH-4AB-0.5'
DILUTION FACTOR			1	1	1	1	1
COMPOUND	MDL	PQL					
Alpha-BHC	3	5	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	3	5	ND	ND	ND	ND	ND
Heptachlor	3	5	ND	ND	ND	ND	ND
Aldrin	3	5	ND	ND	ND	ND	ND
Beta-BHC	3	5	ND	ND	ND	ND	ND
Delta-BHC	3	5	ND	ND	ND	ND	ND
Heptachlor Epoxide	3	5	ND	4.4	10.8	ND	ND
Endosulfan I	3	5	ND	ND	ND	ND	ND
4,4'-DDE	3	5	ND	5.9	ND	ND	ND
Dieldrin	3	5	ND	ND	ND	ND	ND
Endrin	3	5	ND	ND	ND	ND	ND
4,4'-DDD	3	5	ND	ND	ND	ND	ND
Endosulfan II	3	5	ND	ND	ND	ND	ND
4,4'-DDT	3	5	ND	ND	10.6	ND	ND
Endrin Aldehyde	3	5	ND	ND	ND	ND	ND
Endosulfan Sulfate	3	5	ND	ND	ND	ND	ND
Methoxychlor	3	5	ND	ND	ND	ND	ND
Alpha-Chlordane	3	5	ND	15.3	313*	50.0	ND
Gamma-Chlordane	3	5	ND	5.7	265*	18.1	ND
Total Chlordane	15	25	ND	186	1,670*	598	ND
Toxaphene	60	100	ND	ND	ND	ND	ND
Endrin Ketone	30	50	ND	ND	ND	ND	ND
Hexachlorobenzene(HCB)	200	300	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	300	500	ND	ND	ND	ND	ND
SURROGATE	Accept Limit%	%RC	%RC	%RC	%RC	%RC	%RC
Surrogate Standard	60-140	97	101	108	94	118	

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
 ND=Not Detected (below DF × MDL); %RC=Percent Recovery.
 * = Obtained from a higher dilution analysis.
 J =Trace value. Result is between DF × MDL and DF × PQL.
 Note: Total Chlordane is quantified based on Technical Chlordane Standard.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930
 Project Site: Church and Peach PEA
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: AE11-PS1

Lab Job No.: UR604080A
 Date Sampled: 04-18-2016
 Date Received: 04-20-2016
 Date Extracted: 05-11-2016
 Date Analyzed: 05-11-2016
 Date Reported: 05-12-2016

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: $\mu\text{g}/\text{kg}$ (ppb)

LAB SAMPLE I.D.	MB	UR604080-30			
CLIENT SAMPLE I.D.		EH-12-0.5'			
DILUTION FACTOR	1	1			
COMPOUND	MDL	PQL			
Alpha-BHC	3	5	ND	ND	
Gamma-BHC (Lindane)	3	5	ND	ND	
Heptachlor	3	5	ND	ND	
Aldrin	3	5	ND	ND	
Beta-BHC	3	5	ND	ND	
Delta-BHC	3	5	ND	ND	
Heptachlor Epoxide	3	5	ND	ND	
Endosulfan I	3	5	ND	ND	
4,4'-DDE	3	5	ND	7.9	
Dieldrin	3	5	ND	13.7	
Endrin	3	5	ND	ND	
4,4'-DDD	3	5	ND	ND	
Endosulfan II	3	5	ND	ND	
4,4'-DDT	3	5	ND	23.1	
Endrin Aldehyde	3	5	ND	ND	
Endosulfan Sulfate	3	5	ND	ND	
Methoxychlor	3	5	ND	ND	
Alpha-Chlordane	3	5	ND	5.8	
Gamma-Chlordane	3	5	ND	2.4J	
Total Chlordane	15	25	ND	17.5J	
Toxaphene	60	100	ND	ND	
Endrin Ketone	30	50	ND	ND	
Hexachlorobenzene(HCB)	200	300	ND	ND	
Hexachlorocyclopentadiene	300	500	ND	ND	
SURROGATE	Accept Limit%	%RC	%RC		
Surrogate Standard	60-140	131	106		

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
 ND=Not Detected (below DF × MDL); %RC=Percent Recovery.
 * = Obtained from a higher dilution analysis.
 J =Trace value. Result is between DF × MDL and DF × PQL.
 Note: Total Chlordane is quantified based on Technical Chlordane Standard.



Alpha Scientific Corporation
Environmental Laboratories

EPA 8081A (Pesticides)
Batch QA/QC Report

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Soil
Batch No.: AD27-PS1

Lab Job No.: UR604080A
Lab Sample I.D.: UR604080-4
Date Analyzed: 04-27-2016

I. MS/MSD Report
Unit: ppb

Analyte	Method Blank	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	%RPD	%RPD Accept. Limit	%Rec Accept. Limit
Gamma-BHC	ND	20	22.8	21.8	114.0	109.0	4.5	30	46-127
Heptachlor	ND	20	22.2	21.5	111.0	107.5	3.2	30	31-134
Aldrin	ND	20	19.5	18.8	97.5	94.0	3.7	30	36-132
Dieldrin	ND	20	19.6	18.8	98.0	94.0	4.2	30	21-134
Endrin	ND	20	16.8	16.1	84.0	80.5	4.3	30	42-139
4,4'-DDT	ND	20	20.8	19.8	104.0	99.0	4.9	30	21-134

II. LCS Result
Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	Accept. Limit
Gamma-BHC	20.7	20	103.5	80-120
Heptachlor	20.5	20	102.5	80-120
Aldrin	18.2	20	91.0	80-120
Dieldrin	18.4	20	92.0	80-120
Endrin	16.0	20	80.0	80-120
4,4'-DDT	17.8	20	89.0	80-120

ND: Not Detected.



Alpha Scientific Corporation
Environmental Laboratories

**EPA 8081A (Pesticides)
Batch QA/QC Report**

Client: AECOM / URS Corporation
Project: 60483930
Matrix: Soil
Batch No.: AE11-PS1

Lab Job No.: UR604080A
Lab Sample I.D.: UR605039-1
Date Analyzed: 05-11-2016

I. MS/MSD Report
Unit: ppb

Analyte	Method Blank	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Gamma-BHC	ND	20	26.2	25.4	131.0	127.0	3.1	30	46-127
Heptachlor	ND	20	25.3	24.1	126.5	120.5	4.9	30	31-134
Aldrin	ND	20	20.3	19.5	101.5	97.5	4.0	30	36-132
Dieldrin	ND	20	20.5	20.1	102.5	100.5	2.0	30	21-134
Endrin	ND	20	19.0	17.7	95.0	88.5	7.1	30	42-139
4,4'-DDT	ND	20	25.8	23.8	129.0	119.0	8.1	30	21-134

II. LCS Result
Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	Accept. Limit
Gamma-BHC	23.2	20	116.0	80-120
Heptachlor	22.1	20	110.5	80-120
Aldrin	17.9	20	89.5	80-120
Dieldrin	18.4	20	92.0	80-120
Endrin	16.8	20	84.0	80-120
4,4'-DDT	22.9	20	114.5	80-120

ND: Not Detected.



908 North Temperance Ave. ▽ Clovis, CA 93611 ▽ Phone 559-275-2175 ▽ Fax 559-275-4422

Certification Number: CA1312 (DW & WW)
NELAP Certification number: CA00046 (HW)

April 22, 2016

AECOM
1360 East Spruce Avenue
Fresno, California 93720

Attn: Stuart St. Clair

Subject: Report of Data: Case 79313

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Dear Mr. St. Clair:

Three soil samples for project "60483930" were received April 11, 2016, in good condition. Written results are being provided on this April 22, 2016, for the requested analysis. All holding times were met.

For the EPA 8081A analysis, the samples were dried, sieved, and incrementally sampled prior to being extracted according to the EPA method 3550B.

For the EPA 6010B analysis, the samples were dried, sieved, and incrementally sampled prior to being digested according to EPA method 3050B. Both metals recovered below the 80% lower control limit in the MS and MSD.

No other unusual problem or complication was encountered with this sample set.

If you have any questions or require further information, please contact us at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

Paula McCartney, Laboratory Director
APPL, Inc.

PM/rp
Enclosure
cc: File

Number of pages in this report _____

EPA 8081A SOIL

AECOM / URS
1360 E. Spruce Ave.
Fresno, CA 93720

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stuart St. Clair

Project: 60483930

Sample ID: REPLICATE F

Sample Collection Date: 04/11/16

ARF: 79313

APPL ID: AZ32587

QCG: #808SS-160418A-206759

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8081A	4,4'-DDE	0.10	0.005	0.0016	mg/Kg	04/18/16	04/21/16
EPA 8081A	4,4'-DDT	0.015	0.005	0.0004	mg/Kg	04/18/16	04/21/16
EPA 8081A	4,4'-TDE/DDD	Not detected	0.005	0.0018	mg/Kg	04/18/16	04/21/16
EPA 8081A	A-BHC	Not detected	0.005	0.0010	mg/Kg	04/18/16	04/21/16
EPA 8081A	A-CHLORDANE	0.029	0.005	0.0009	mg/Kg	04/18/16	04/21/16
EPA 8081A	ALDRIN	Not detected	0.005	0.0014	mg/Kg	04/18/16	04/21/16
EPA 8081A	B-BHC	Not detected	0.005	0.0010	mg/Kg	04/18/16	04/21/16
EPA 8081A	CHLORDANE, TECHNICAL	0.20	0.100	0.0150	mg/Kg	04/18/16	04/21/16
EPA 8081A	D-BHC	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	DIELDRIN	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDOSULFAN I	Not detected	0.005	0.0004	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDOSULFAN II	Not detected	0.005	0.0004	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDOSULFAN SULFATE	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDRIN	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDRIN ALDEHYDE	Not detected	0.005	0.0029	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDRIN KETONE	Not detected	0.005	0.0035	mg/Kg	04/18/16	04/21/16
EPA 8081A	G-BHC (LINDANE)	Not detected	0.005	0.0009	mg/Kg	04/18/16	04/21/16
EPA 8081A	G-CHLORDANE	0.030	0.005	0.0009	mg/Kg	04/18/16	04/21/16
EPA 8081A	HEPTACHLOR	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	HEPTACHLOR EPOXIDE	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	METHOXYCHLOR	Not detected	0.005	0.0014	mg/Kg	04/18/16	04/21/16
EPA 8081A	TOXAPHENE	Not detected	0.100	0.0150	mg/Kg	04/18/16	04/21/16
EPA 8081A	SURROGATE: DECACHLOROBIPHEN	96.5	44-147		%	04/18/16	04/21/16
EPA 8081A	SURROGATE: TCMX (S)	77.8	25-147		%	04/18/16	04/21/16

Quant Method: OCL0406.M
Run #: 0421011
Instrument: Ethel
Sequence: 160421
Dilution Factor: 1
Initials: LHI

Printed: 04/21/16 5:19:00 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8081A SOIL

AECOM / URS
1360 E. Spruce Ave.
Fresno, CA 93720

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stuart St. Clair

Project: 60483930

Sample ID: REPLICATE D

Sample Collection Date: 04/11/16

ARF: 79313

APPL ID: AZ32588

QCG: #808SS-160418A-206759

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8081A	4,4'-DDE	0.10	0.005	0.0016	mg/Kg	04/18/16	04/21/16
EPA 8081A	4,4'-DDT	0.012	0.005	0.0004	mg/Kg	04/18/16	04/21/16
EPA 8081A	4,4'-TDE/DDD	Not detected	0.005	0.0018	mg/Kg	04/18/16	04/21/16
EPA 8081A	A-BHC	Not detected	0.005	0.0010	mg/Kg	04/18/16	04/21/16
EPA 8081A	A-CHLORDANE	0.046	0.005	0.0009	mg/Kg	04/18/16	04/21/16
EPA 8081A	ALDRIN	Not detected	0.005	0.0014	mg/Kg	04/18/16	04/21/16
EPA 8081A	B-BHC	Not detected	0.005	0.0010	mg/Kg	04/18/16	04/21/16
EPA 8081A	CHLORDANE, TECHNICAL	0.31	0.100	0.0150	mg/Kg	04/18/16	04/21/16
EPA 8081A	D-BHC	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	DIELDRIN	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDOSULFAN I	Not detected	0.005	0.0004	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDOSULFAN II	Not detected	0.005	0.0004	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDOSULFAN SULFATE	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDRIN	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDRIN ALDEHYDE	Not detected	0.005	0.0029	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDRIN KETONE	Not detected	0.005	0.0035	mg/Kg	04/18/16	04/21/16
EPA 8081A	G-BHC (LINDANE)	Not detected	0.005	0.0009	mg/Kg	04/18/16	04/21/16
EPA 8081A	G-CHLORDANE	0.048	0.005	0.0009	mg/Kg	04/18/16	04/21/16
EPA 8081A	HEPTACHLOR	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	HEPTACHLOR EPOXIDE	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	METHOXYCHLOR	Not detected	0.005	0.0014	mg/Kg	04/18/16	04/21/16
EPA 8081A	TOXAPHENE	Not detected	0.100	0.0150	mg/Kg	04/18/16	04/21/16
EPA 8081A	SURROGATE: DECACHLOROBIPHEN	96.0	44-147		%	04/18/16	04/21/16
EPA 8081A	SURROGATE: TCMX (S)	78.9	25-147		%	04/18/16	04/21/16

Quant Method: OCL0406.M
Run #: 0421012
Instrument: Ethel
Sequence: 160421
Dilution Factor: 1
Initials: LHI

Printed: 04/21/16 5:19:00 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8081A SOIL

AECOM / URS
1360 E. Spruce Ave.
Fresno, CA 93720

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stuart St. Clair
Project: 60483930

ARF: 79313

Sample ID: REPLICATE E

APPL ID: AZ32589

Sample Collection Date: 04/11/16

QCG: #808SS-160418A-206759

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8081A	4,4'-DDE	0.090	0.005	0.0016	mg/Kg	04/18/16	04/21/16
EPA 8081A	4,4'-DDT	0.013	0.005	0.0004	mg/Kg	04/18/16	04/21/16
EPA 8081A	4,4'-TDE/DDD	Not detected	0.005	0.0018	mg/Kg	04/18/16	04/21/16
EPA 8081A	A-BHC	Not detected	0.005	0.0010	mg/Kg	04/18/16	04/21/16
EPA 8081A	A-CHLORDANE	0.035	0.005	0.0009	mg/Kg	04/18/16	04/21/16
EPA 8081A	ALDRIN	Not detected	0.005	0.0014	mg/Kg	04/18/16	04/21/16
EPA 8081A	B-BHC	Not detected	0.005	0.0010	mg/Kg	04/18/16	04/21/16
EPA 8081A	CHLORDANE, TECHNICAL	0.23	0.100	0.0150	mg/Kg	04/18/16	04/21/16
EPA 8081A	D-BHC	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	DIELDRIN	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDOSULFAN I	Not detected	0.005	0.0004	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDOSULFAN II	Not detected	0.005	0.0004	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDOSULFAN SULFATE	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDRIN	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDRIN ALDEHYDE	Not detected	0.005	0.0029	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDRIN KETONE	Not detected	0.005	0.0035	mg/Kg	04/18/16	04/21/16
EPA 8081A	G-BHC (LINDANE)	Not detected	0.005	0.0009	mg/Kg	04/18/16	04/21/16
EPA 8081A	G-CHLORDANE	0.035	0.005	0.0009	mg/Kg	04/18/16	04/21/16
EPA 8081A	HEPTACHLOR	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	HEPTACHLOR EPOXIDE	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	METHOXYCHLOR	Not detected	0.005	0.0014	mg/Kg	04/18/16	04/21/16
EPA 8081A	TOXAPHENE	Not detected	0.100	0.0150	mg/Kg	04/18/16	04/21/16
EPA 8081A	SURROGATE: DECACHLOROBIPHEN	100	44-147		%	04/18/16	04/21/16
EPA 8081A	SURROGATE: TCMX (S)	78.0	25-147		%	04/18/16	04/21/16

Quant Method: OCL0406.M
Run #: 0421013
Instrument: Ethel
Sequence: 160421
Dilution Factor: 1
Initials: LHI

Printed: 04/21/16 5:19:00 PM
APPL-F1-SC-NoMC-REG MDLs

Metals Results

ARF: 79313

AECOM / URS
1360 E. Spruce Ave.
Fresno, CA 93720

Attn: Stuart St. Clair

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	RL	MDL	Units	DF	Prep Date	Analysis Date
APPL ID: AZ32587 -Client Sample ID: REPLICATE F							-Sample Collection Date: 04/11/16	Project: 60483930
6010B	ARSENIC (AS)	2.7	0.5	0.25	mg/kg	1	04/19/16	04/19/16
6010B	LEAD (PB)	6.1	0.5	0.16	mg/kg	1	04/19/16	04/19/16
APPL ID: AZ32588 -Client Sample ID: REPLICATE D							-Sample Collection Date: 04/11/16	Project: 60483930
6010B	ARSENIC (AS)	3.1	0.5	0.25	mg/kg	1	04/19/16	04/19/16
6010B	LEAD (PB)	6.2	0.5	0.16	mg/kg	1	04/19/16	04/19/16
APPL ID: AZ32589 -Client Sample ID: REPLICATE E							-Sample Collection Date: 04/11/16	Project: 60483930
6010B	ARSENIC (AS)	3.1	0.5	0.25	mg/kg	1	04/19/16	04/19/16
6010B	LEAD (PB)	6.2	0.5	0.16	mg/kg	1	04/19/16	04/19/16

Printed: 04/20/16 2:10:23 PM

APPL-F1-SC-NoMC-REG MDLs

Method Blank
EPA 8081A SOIL

Blank Name/QCG: 160418S-32827 - 206759
Batch ID: #808SS-160418A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	4,4'-DDE	Not detected	0.005	0.0016	mg/Kg	04/18/16	04/21/16
BLANK	4,4'-DDT	Not detected	0.005	0.0004	mg/Kg	04/18/16	04/21/16
BLANK	4,4'-TDE/DDD	Not detected	0.005	0.0018	mg/Kg	04/18/16	04/21/16
BLANK	A-BHC	Not detected	0.005	0.0010	mg/Kg	04/18/16	04/21/16
BLANK	A-CHLORDANE	Not detected	0.005	0.0009	mg/Kg	04/18/16	04/21/16
BLANK	ALDRIN	Not detected	0.005	0.0014	mg/Kg	04/18/16	04/21/16
BLANK	B-BHC	Not detected	0.005	0.0010	mg/Kg	04/18/16	04/21/16
BLANK	CHLORDANE, TECHNICAL	Not detected	0.100	0.0150	mg/Kg	04/18/16	04/21/16
BLANK	D-BHC	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
BLANK	DIELDRIN	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
BLANK	ENDOSULFAN I	Not detected	0.005	0.0004	mg/Kg	04/18/16	04/21/16
BLANK	ENDOSULFAN II	Not detected	0.005	0.0004	mg/Kg	04/18/16	04/21/16
BLANK	ENDOSULFAN SULFATE	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
BLANK	ENDRIN	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
BLANK	ENDRIN ALDEHYDE	Not detected	0.005	0.0029	mg/Kg	04/18/16	04/21/16
BLANK	ENDRIN KETONE	Not detected	0.005	0.0035	mg/Kg	04/18/16	04/21/16
BLANK	G-BHC (LINDANE)	Not detected	0.005	0.0009	mg/Kg	04/18/16	04/21/16
BLANK	G-CHLORDANE	Not detected	0.005	0.0009	mg/Kg	04/18/16	04/21/16
BLANK	HEPTACHLOR	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
BLANK	HEPTACHLOR EPOXIDE	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
BLANK	METHOXYCHLOR	Not detected	0.005	0.0014	mg/Kg	04/18/16	04/21/16
BLANK	TOXAPHENE	Not detected	0.100	0.0150	mg/Kg	04/18/16	04/21/16
BLANK	SURROGATE: DECACHLOROBIPHEN	96.2	44-147		%	04/18/16	04/21/16
BLANK	SURROGATE: TCMX (S)	75.0	25-147		%	04/18/16	04/21/16

Quant Method: OCL0406.M
Run #: 0421007
Instrument: Ethel
Sequence: 160421
Initials: LHI

GC SC-Blank-REG MDLs
Printed: 04/21/16 5:18:59 PM

Laboratory Control Spike Recovery

EPA 8081A SOIL

APPL ID: 160418S-32827 LCS - 206759

Batch ID: #808SS-160418A

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Level mg/Kg	SPK Result mg/Kg	SPK % Recovery	Recovery Limits
4,4'-DDE	0.167	0.149	89.2	55-124
4,4'-DDT	0.167	0.126	75.4	48-138
4,4'-TDE/DDD	0.167	0.157	94.0	53-130
A-BHC	0.167	0.153	91.6	44-131
A-CHLORDANE	0.167	0.153	91.6	51-125
ALDRIN	0.167	0.149	89.2	45-124
B-BHC	0.167	0.154	92.2	58-131
D-BHC	0.167	0.149	89.2	40-136
DIELDRIN	0.167	0.148	88.6	58-127
ENDOSULFAN I	0.167	0.155	92.8	66-124
ENDOSULFAN II	0.167	0.137	82.0	54-131
ENDOSULFAN SULFATE	0.167	0.152	91.0	49-134
ENDRIN	0.167	0.139	83.2	49-143
ENDRIN ALDEHYDE	0.167	0.124	74.3	25-125
ENDRIN KETONE	0.167	0.156	93.4	46-129
G-BHC (LINDANE)	0.167	0.154	92.2	53-129
G-CHLORDANE	0.167	0.153	91.6	52-123
HEPTACHLOR	0.167	0.146	87.4	48-133
HEPTACHLOR EPOXIDE	0.167	0.156	93.4	53-124
METHOXYCHLOR	0.167	0.142	85.0	51-140
TOXAPHENE	1.67	1.69	101	52-122
<hr/>				
SURROGATE: DECACHLOROBIPHENYL	0.333	0.323	97.0	44-147
SURROGATE: TCMX (S)	0.333	0.266	79.9	25-147

Comments: _____

<u>Primary</u>	<u>SPK</u>
Quant Method :	OCL0406.M
Extraction Date :	04/18/16
Analysis Date :	04/21/16
Instrument :	Ethel
Run :	0421008
Initials :	LHI

Printed: 04/21/16 5:19:00 PM

APPL Standard LCS

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	MDL	Units	Prep Date	Analysis Date	QC Group
6010B	ARSENIC (AS)	Not detected	0.5	0.25	mg/kg	04/19/16	04/19/16	#6010B-160419A-AZ32587
6010B	LEAD (PB)	Not detected	0.5	0.16	mg/kg	04/19/16	04/19/16	#6010B-160419A-AZ32587

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	ARSENIC (AS)	2.50	2.3	92.0	80-120	04/19/16	04/19/16	#6010B-160419A-AZ32587
EPA 6010B	LEAD (PB)	2.50	2.4	96.0	80-120	04/19/16	04/19/16	#6010B-160419A-AZ32587

Comments: _____

Matrix Spike Recoveries

METALS

APPL ID: 160419S-32587 MS - 206691

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample ID: AZ32587

Client ID: REPLICATE F

Method	Compound Name	Spike Lvl mg/kg	Matrix Res mg/kg	SPK Res mg/kg	DUP Res mg/kg	SPK % Recovery	DUP % Recovery	RPD	RPD Max	RPD Recovery Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
EPA 6010B	ARSENIC (AS)	100.0	2.7	69.0	64.0	66.3 #	61.3 #	7.5	20	80-120	04/19/16	04/19/16	04/19/16	04/19/16	206691	AZ32587
EPA 6010B	LEAD (PB)	100.0	6.1	72.4	67.5	66.3 #	61.4 #	7.0	20	80-120	04/19/16	04/19/16	04/19/16	04/19/16	206691	AZ32587

= Recovery is outside QC limits.

Comments:



APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611

Phone: (559) 275-2175
Fax: (559) 275-4422

CHAIN OF CUSTODY RECORD

#131's 18.0"

C.O.C. 41065

Report to: PLEASE PRINT	Invoice to: PLEASE PRINT
Company Name: <u>AECOM</u> Phone: <u>(559) 448-8282</u>	Company Name: <u>Same</u> Phone: _____
Address: <u>1360 E SPRUCE Ave</u> <u>Suite 101 Fresno CA 93220</u> Fax: _____	Address: _____ Fax: _____
Attn: <u>Stuart S Clark</u>	Attn: _____

Project Name/Number	Sampler (Print)	Analysis Requested/Method Number					Date Shipped:		
		Matrix							
Purchase Order Number	Sampler (Signature)	No. of Containers	Aq	Sed.	Soil	As 6010B	Pb's 8081A	Lead 6010B	Carrier:
Sample Identification	Location								Date Collected
60483930	Chad Neptune								
	Chad Neptune								
Replicate F	Church + Peach	1			X	X	X	X	ISM Prep Needed
Replicate D	↓	1				X	X	X	ISM Prep Needed
Replicate E	↓	1			X	X	X		ISM Prep Needed

Shuttle Temperature:	Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other	Sample Disposal: <input type="checkbox"/> Return to client <input type="checkbox"/> Disposal by Lab (30-day retention)
Relinquished by sampler: <u>Chad Neptune</u>	Date: <u>4/11/16</u> Time: <u>1608</u>	Received by: _____ Date: _____ Time: _____
Relinquished by:	Date: _____ Time: _____	Received by: _____ Date: <u>4/11/16</u> Time: <u>16:10</u>

White: Return to client with report

Yellow: Laboratory Copy

Pink: Sampler

See reverse side for Container Preservative and Sampling Information



908 North Temperance Ave. ▽ Clovis, CA 93611 ▽ Phone 559-275-2175 ▽ Fax 559-275-4422

Certification Number: CA1312 (DW & WW)
NELAP Certification number: CA00046 (HW)

April 22, 2016

AECOM
1360 East Spruce Avenue
Fresno, California 93720

Attn: Stuart St. Clair

Subject: Report of Data: Case 79358

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Dear Mr. St. Clair:

Three soil samples for project "60483930" were received April 13, 2016, in good condition. Written results are being provided on this April 22, 2016, for the requested analysis. All holding times were met.

For the EPA 8081A analysis, the samples were dried, sieved, and incrementally sampled prior to being extracted according to the EPA method 3550B. In the MS/MSD, one compound recovered above its upper control limit. All other spike recoveries were acceptable.

For the EPA 6010B analysis, the samples were dried, sieved, and incrementally sampled prior to being digested according to EPA method 3050B.

No other unusual problem or complication was encountered with this sample set.

If you have any questions or require further information, please contact us at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

Paula McCartney, Laboratory Director
APPL, Inc.

PM/rp
Enclosure
cc: File

Number of pages in this report _____

EPA 8081A SOIL

AECOM / URS
1360 E. Spruce Ave.
Fresno, CA 93720

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stuart St. Clair
Project: 60483930

ARF: 79358

Sample ID: Replicate A

APPL ID: AZ32825

Sample Collection Date: 04/12/16

QCG: #808SS-160418A-206759

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8081A	4,4'-DDE	0.26	0.005	0.0016	mg/Kg	04/18/16	04/21/16
EPA 8081A	4,4'-DDT	0.26	0.005	0.0004	mg/Kg	04/18/16	04/21/16
EPA 8081A	4,4'-TDE/DDD	0.0070	0.005	0.0018	mg/Kg	04/18/16	04/21/16
EPA 8081A	A-BHC	Not detected	0.005	0.0010	mg/Kg	04/18/16	04/21/16
EPA 8081A	A-CHLORDANE	0.012	0.005	0.0009	mg/Kg	04/18/16	04/21/16
EPA 8081A	ALDRIN	Not detected	0.005	0.0014	mg/Kg	04/18/16	04/21/16
EPA 8081A	B-BHC	Not detected	0.005	0.0010	mg/Kg	04/18/16	04/21/16
EPA 8081A	CHLORDANE, TECHNICAL	0.086 J	0.100	0.0150	mg/Kg	04/18/16	04/21/16
EPA 8081A	D-BHC	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	DIELDRIN	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDOSULFAN I	Not detected	0.005	0.0004	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDOSULFAN II	Not detected	0.005	0.0004	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDOSULFAN SULFATE	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDRIN	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDRIN ALDEHYDE	Not detected	0.005	0.0029	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDRIN KETONE	Not detected	0.005	0.0035	mg/Kg	04/18/16	04/21/16
EPA 8081A	G-BHC (LINDANE)	Not detected	0.005	0.0009	mg/Kg	04/18/16	04/21/16
EPA 8081A	G-CHLORDANE	0.050 Y	0.005	0.0009	mg/Kg	04/18/16	04/21/16
EPA 8081A	HEPTACHLOR	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	HEPTACHLOR EPOXIDE	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	METHOXYCHLOR	Not detected	0.005	0.0014	mg/Kg	04/18/16	04/21/16
EPA 8081A	TOXAPHENE	Not detected	0.100	0.0150	mg/Kg	04/18/16	04/21/16
EPA 8081A	SURROGATE: DECACHLOROBIPHEN	100	44-147		%	04/18/16	04/21/16
EPA 8081A	SURROGATE: TCMX (S)	85.5	25-147		%	04/18/16	04/21/16

J = Estimated value.

Y = Relative % Difference between primary and confirmation column is > 40%.

Quant Method: OCL0406.M
Run #: 0421014
Instrument: Ethel
Sequence: 160421
Dilution Factor: 1
Initials: LHI

Printed: 04/22/16 9:03:40 AM
APPL-F1-SC-NoMC-REG MDLs

EPA 8081A SOIL

AECOM / URS
1360 E. Spruce Ave.
Fresno, CA 93720

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stuart St. Clair

Project: 60483930

ARF: 79358

Sample ID: Replicate B

APPL ID: AZ32826

Sample Collection Date: 04/12/16

QCG: #808SS-160418A-206759

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8081A	4,4'-DDE	0.57	0.005	0.0016	mg/Kg	04/18/16	04/21/16
EPA 8081A	4,4'-DDT	0.46	0.005	0.0004	mg/Kg	04/18/16	04/21/16
EPA 8081A	4,4'-TDE/DDD	0.0096	0.005	0.0018	mg/Kg	04/18/16	04/21/16
EPA 8081A	A-BHC	Not detected	0.005	0.0010	mg/Kg	04/18/16	04/21/16
EPA 8081A	A-CHLORDANE	0.016	0.005	0.0009	mg/Kg	04/18/16	04/21/16
EPA 8081A	ALDRIN	Not detected	0.005	0.0014	mg/Kg	04/18/16	04/21/16
EPA 8081A	B-BHC	Not detected	0.005	0.0010	mg/Kg	04/18/16	04/21/16
EPA 8081A	CHLORDANE, TECHNICAL	0.11	0.100	0.0150	mg/Kg	04/18/16	04/21/16
EPA 8081A	D-BHC	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	DIELDRIN	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDOSULFAN I	Not detected	0.005	0.0004	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDOSULFAN II	Not detected	0.005	0.0004	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDOSULFAN SULFATE	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDRIN	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDRIN ALDEHYDE	Not detected	0.005	0.0029	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDRIN KETONE	Not detected	0.005	0.0035	mg/Kg	04/18/16	04/21/16
EPA 8081A	G-BHC (LINDANE)	Not detected	0.005	0.0009	mg/Kg	04/18/16	04/21/16
EPA 8081A	G-CHLORDANE	0.12 Y	0.005	0.0009	mg/Kg	04/18/16	04/21/16
EPA 8081A	HEPTACHLOR	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	HEPTACHLOR EPOXIDE	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	METHOXYCHLOR	Not detected	0.005	0.0014	mg/Kg	04/18/16	04/21/16
EPA 8081A	TOXAPHENE	Not detected	0.100	0.0150	mg/Kg	04/18/16	04/21/16
EPA 8081A	SURROGATE: DECACHLOROBIPHEN	98.1	44-147		%	04/18/16	04/21/16
EPA 8081A	SURROGATE: TCMX (S)	85.3	25-147		%	04/18/16	04/21/16

Y = Relative % Difference between primary and confirmation column is > 40%.

Quant Method: OCL0406.M
Run #: 0421015
Instrument: Ethel
Sequence: 160421
Dilution Factor: 1
Initials: LHI

Printed: 04/22/16 9:03:40 AM
APPL-F1-SC-NoMC-REG MDLs

EPA 8081A SOIL

AECOM / URS
1360 E. Spruce Ave.
Fresno, CA 93720

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stuart St. Clair
Project: 60483930

ARF: 79358

Sample ID: Replicate C
Sample Collection Date: 04/12/16

APPL ID: AZ32827
QCG: #808SS-160418A-206759

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8081A	4,4'-DDE	0.12	0.005	0.0016	mg/Kg	04/18/16	04/21/16
EPA 8081A	4,4'-DDT	0.13	0.005	0.0004	mg/Kg	04/18/16	04/21/16
EPA 8081A	4,4'-TDE/DDD	Not detected	0.005	0.0018	mg/Kg	04/18/16	04/21/16
EPA 8081A	A-BHC	Not detected	0.005	0.0010	mg/Kg	04/18/16	04/21/16
EPA 8081A	A-CHLORDANE	0.14	0.005	0.0009	mg/Kg	04/18/16	04/21/16
EPA 8081A	ALDRIN	Not detected	0.005	0.0014	mg/Kg	04/18/16	04/21/16
EPA 8081A	B-BHC	Not detected	0.005	0.0010	mg/Kg	04/18/16	04/21/16
EPA 8081A	CHLORDANE, TECHNICAL	1.1	0.100	0.0150	mg/Kg	04/18/16	04/21/16
EPA 8081A	D-BHC	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	DIELDRIN	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDOSULFAN I	Not detected	0.005	0.0004	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDOSULFAN II	Not detected	0.005	0.0004	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDOSULFAN SULFATE	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDRIN	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDRIN ALDEHYDE	Not detected	0.005	0.0029	mg/Kg	04/18/16	04/21/16
EPA 8081A	ENDRIN KETONE	Not detected	0.005	0.0035	mg/Kg	04/18/16	04/21/16
EPA 8081A	G-BHC (LINDANE)	Not detected	0.005	0.0009	mg/Kg	04/18/16	04/21/16
EPA 8081A	G-CHLORDANE	0.18	0.005	0.0009	mg/Kg	04/18/16	04/21/16
EPA 8081A	HEPTACHLOR	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	HEPTACHLOR EPOXIDE	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
EPA 8081A	METHOXYCHLOR	Not detected	0.005	0.0014	mg/Kg	04/18/16	04/21/16
EPA 8081A	TOXAPHENE	Not detected	0.100	0.0150	mg/Kg	04/18/16	04/21/16
EPA 8081A	SURROGATE: DECACHLOROBIPHEN	93.9	44-147		%	04/18/16	04/21/16
EPA 8081A	SURROGATE: TCMX (S)	84.5	25-147		%	04/18/16	04/21/16

Quant Method: OCL0406.M
Run #: 0421020
Instrument: Ethel
Sequence: 160421
Dilution Factor: 1
Initials: LHI

Printed: 04/22/16 9:03:40 AM
APPL-F1-SC-NoMC-REG MDLs

Metals Results

ARF: 79358

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

AECOM / URS
1360 E. Spruce Ave.
Fresno, CA 93720

Attn: Stuart St. Clair

Method	Analyte	Result	RL	MDL	Units	DF	Prep Date	Analysis Date
APPL ID: AZ32825 -Client Sample ID: Replicate A							-Sample Collection Date: 04/12/16	Project: 60483930
6010B	ARSENIC (AS)	2.2	0.5	0.25	mg/kg	1	04/19/16	04/19/16
6010B	LEAD (PB)	20.9	0.5	0.16	mg/kg	1	04/19/16	04/19/16
APPL ID: AZ32826 -Client Sample ID: Replicate B							-Sample Collection Date: 04/12/16	Project: 60483930
6010B	ARSENIC (AS)	1.5	0.5	0.25	mg/kg	1	04/19/16	04/19/16
6010B	LEAD (PB)	22.2	0.5	0.16	mg/kg	1	04/19/16	04/19/16
APPL ID: AZ32827 -Client Sample ID: Replicate C							-Sample Collection Date: 04/12/16	Project: 60483930
6010B	ARSENIC (AS)	1.5	0.5	0.25	mg/kg	1	04/19/16	04/19/16
6010B	LEAD (PB)	25.3	0.5	0.16	mg/kg	1	04/19/16	04/19/16

Method Blank
EPA 8081A SOIL

Blank Name/QCG: **160418S-32827 - 206759**
Batch ID: #808SS-160418A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	4,4'-DDE	Not detected	0.005	0.0016	mg/Kg	04/18/16	04/21/16
BLANK	4,4'-DDT	Not detected	0.005	0.0004	mg/Kg	04/18/16	04/21/16
BLANK	4,4'-TDE/DDD	Not detected	0.005	0.0018	mg/Kg	04/18/16	04/21/16
BLANK	A-BHC	Not detected	0.005	0.0010	mg/Kg	04/18/16	04/21/16
BLANK	A-CHLORDANE	Not detected	0.005	0.0009	mg/Kg	04/18/16	04/21/16
BLANK	ALDRIN	Not detected	0.005	0.0014	mg/Kg	04/18/16	04/21/16
BLANK	B-BHC	Not detected	0.005	0.0010	mg/Kg	04/18/16	04/21/16
BLANK	CHLORDANE, TECHNICAL	Not detected	0.100	0.0150	mg/Kg	04/18/16	04/21/16
BLANK	D-BHC	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
BLANK	DIELDRIN	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
BLANK	ENDOSULFAN I	Not detected	0.005	0.0004	mg/Kg	04/18/16	04/21/16
BLANK	ENDOSULFAN II	Not detected	0.005	0.0004	mg/Kg	04/18/16	04/21/16
BLANK	ENDOSULFAN SULFATE	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
BLANK	ENDRIN	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
BLANK	ENDRIN ALDEHYDE	Not detected	0.005	0.0029	mg/Kg	04/18/16	04/21/16
BLANK	ENDRIN KETONE	Not detected	0.005	0.0035	mg/Kg	04/18/16	04/21/16
BLANK	G-BHC (LINDANE)	Not detected	0.005	0.0009	mg/Kg	04/18/16	04/21/16
BLANK	G-CHLORDANE	Not detected	0.005	0.0009	mg/Kg	04/18/16	04/21/16
BLANK	HEPTACHLOR	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
BLANK	HEPTACHLOR EPOXIDE	Not detected	0.005	0.0011	mg/Kg	04/18/16	04/21/16
BLANK	METHOXYCHLOR	Not detected	0.005	0.0014	mg/Kg	04/18/16	04/21/16
BLANK	TOXAPHENE	Not detected	0.100	0.0150	mg/Kg	04/18/16	04/21/16
BLANK	SURROGATE: DECACHLOROBIPHEN	96.2	44-147		%	04/18/16	04/21/16
BLANK	SURROGATE: TCMX (S)	75.0	25-147		%	04/18/16	04/21/16

Quant Method: OCL0406.M
Run #: 0421007
Instrument: Ethel
Sequence: 160421
Initials: LHI

GC SC-Blank-REG MDLs
Printed: 04/21/16 5:26:25 PM

Laboratory Control Spike Recovery

EPA 8081A SOIL

APPL ID: 160418S-32827 LCS - 206759
 Batch ID: #808SS-160418A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Level mg/Kg	SPK Result mg/Kg	SPK % Recovery	Recovery Limits
4,4'-DDE	0.167	0.149	89.2	55-124
4,4'-DDT	0.167	0.126	75.4	48-138
4,4'-TDE/DDD	0.167	0.157	94.0	53-130
A-BHC	0.167	0.153	91.6	44-131
A-CHLORDANE	0.167	0.153	91.6	51-125
ALDRIN	0.167	0.149	89.2	45-124
B-BHC	0.167	0.154	92.2	58-131
D-BHC	0.167	0.149	89.2	40-136
DIELDRIN	0.167	0.148	88.6	58-127
ENDOSULFAN I	0.167	0.155	92.8	66-124
ENDOSULFAN II	0.167	0.137	82.0	54-131
ENDOSULFAN SULFATE	0.167	0.152	91.0	49-134
ENDRIN	0.167	0.139	83.2	49-143
ENDRIN ALDEHYDE	0.167	0.124	74.3	25-125
ENDRIN KETONE	0.167	0.156	93.4	46-129
G-BHC (LINDANE)	0.167	0.154	92.2	53-129
G-CHLORDANE	0.167	0.153	91.6	52-123
HEPTACHLOR	0.167	0.146	87.4	48-133
HEPTACHLOR EPOXIDE	0.167	0.156	93.4	53-124
METHOXYCHLOR	0.167	0.142	85.0	51-140
TOXAPHENE	1.67	1.69	101	52-122
<hr/>				
SURROGATE: DECACHLOROBIPHENYL	0.333	0.323	97.0	44-147
SURROGATE: TCMX (S)	0.333	0.266	79.9	25-147

Comments: _____

<u>Primary</u>	<u>SPK</u>
Quant Method :	OCL0406.M
Extraction Date :	04/18/16
Analysis Date :	04/21/16
Instrument :	Ethel
Run :	0421008
Initials :	LHI

Printed: 04/21/16 5:26:26 PM
 APPL Standard LCS

Matrix Spike Recoveries EPA 8081A SOIL

APPL ID: 160418S-32827 MS - 206759
 Batch ID: #808SS-160418A
 Sample ID: AZ32827
 Client ID: Replicate C

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl mg/Kg	Matrix Result mg/Kg	SPK Result mg/Kg	DUP Result mg/Kg	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
4,4'-DDE	0.167	0.12	0.306	0.298	111	107	55-124	2.6	30
4,4'-DDT	0.167	0.13	0.317	0.282	112	91.0	48-138	11.7	30
4,4'-TDE/DDD	0.167	ND	0.159	0.157	95.2	94.0	53-130	1.3	30
A-BHC	0.167	ND	0.161	0.158	96.4	94.6	44-131	1.9	30
A-CHLORDANE	0.167	0.14	0.321	0.299	108	95.2	51-125	7.1	30
ALDRIN	0.167	ND	0.152	0.151	91.0	90.4	45-124	0.66	30
B-BHC	0.167	ND	0.155	0.154	92.8	92.2	58-131	0.65	30
D-BHC	0.167	ND	0.153	0.153	91.6	91.6	40-136	0.0	30
DIELDRIN	0.167	ND	0.151	0.149	90.4	89.2	58-127	1.3	30
ENDOSULFAN I	0.167	ND	0.160	0.159	95.8	95.2	66-124	0.63	30
ENDOSULFAN II	0.167	ND	0.107	0.109	64.1	65.3	54-131	1.9	30
ENDOSULFAN SULFATE	0.167	ND	0.155	0.153	92.8	91.6	49-134	1.3	30
ENDRIN	0.167	ND	0.136	0.138	81.4	82.6	49-143	1.5	30
ENDRIN ALDEHYDE	0.167	ND	0.139	0.135	83.2	80.8	25-125	2.9	30
ENDRIN KETONE	0.167	ND	0.146	0.147	87.4	88.0	46-129	0.68	30
G-BHC (LINDANE)	0.167	ND	0.156	0.154	93.4	92.2	53-129	1.3	30
G-CHLORDANE	0.167	0.18	0.369	0.344	113	98.2	52-123	7.0	30
HEPTACHLOR	0.167	ND	0.158	0.154	94.6	92.2	48-133	2.6	30
HEPTACHLOR EPOXIDE	0.167	ND	0.157	0.153	94.0	91.6	53-124	2.6	30
METHOXYCHLOR	0.167	ND	0.152	0.147	91.0	88.0	51-140	3.3	30
TOXAPHENE	1.67	ND	3.11	3.39	186 #	203 #	52-122	8.6	30

SURROGATE: DECACHLOROBIPHENYL	0.333	NA	0.311	0.309	93.4	92.8	44-147		
SURROGATE: TCMX (S)	0.333	NA	0.280	0.275	84.1	82.6	25-147		

= Recovery is outside QC limits.

Comments: _____

	SPK	DUP
Primary		
Quant Method :	OCL0406.M	OCL0406.M
Extraction Date :	04/18/16	04/18/16
Analysis Date :	04/21/16	04/21/16
Instrument :	Ethel	Ethel
Run :	0421016	0421017
Initials :	LHI	

Printed: 04/21/16 5:26:27 PM
 APPL MSD SCII

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	MDL	Units	Prep Date	Analysis Date	QC Group
6010B	ARSENIC (AS)	Not detected	0.5	0.25	mg/kg	04/19/16	04/19/16	#6010B-160419A-AZ32587
6010B	LEAD (PB)	Not detected	0.5	0.16	mg/kg	04/19/16	04/19/16	#6010B-160419A-AZ32587

Laboratory Control Spike Recovery METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	ARSENIC (AS)	2.50	2.3	92.0	80-120	04/19/16	04/19/16	#6010B-160419A-AZ32587
EPA 6010B	LEAD (PB)	2.50	2.4	96.0	80-120	04/19/16	04/19/16	#6010B-160419A-AZ32587

Comments: _____



APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611

Phone: (559) 275-2175
Fax: (559) 275-4422

CHAIN OF CUSTODY RECORD

79358 3.5°

C.O.C. 41068

Report to: PLEASE PRINT Company Name: <u>AE COM</u> Phone: <u>(559) 448-8222</u> Address: <u>1360 E SPRUCE AVE</u> <u>SUITE 100 FRESNO, CA 93720</u> Fax: _____ Attn: <u>Stuart St. Clair</u>	Invoice to: PLEASE PRINT Company Name: <u>Same</u> Phone: _____ Address: _____ Fax: _____ Attn: _____
---	--

Project Name/Number	Sampler (Print)	Analysis Requested/Method Number						Date Shipped:	
		Matrix			As 6010B	OCs 8081A	lead 6010C		
Purchase Order Number	Sampler (Signature)	No. of Containers						Aq.	Sed.
Sample Identification	Location	Date Collected	Time Collected	Time Zone				Waybill No.:	
60483930	Chad Neptune								
	Chad Neptune								
Replicate A	CPA PEA	4/12/16	1040 PST			X	X	ISM Prep Needed	
Replicate B	↓		1250			X	X	ISM Prep Needed	
Replicate C	↓		1115	↓		X	X	ISM Prep Needed	
Shuttle Temperature:	Turnaround Requested; Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other			Sample Disposal: <input type="checkbox"/> Return to client <input type="checkbox"/> Disposal by Lab (30-day retention)					
Relinquished by sampler: Chad Neptune	Date 4/13/16	Time 1440	Received by:		Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date	Time	Received by:		Relinquished by:	Date 4/13/16	Time 14:40	Received at lab by: Siu Calderon	

White: Return to client with report Yellow: Laboratory Copy Pink: Sampler
See reverse side for Container Preservative and Sampling Information

4/28/2016
Mr. Stuart St. Clair
AECOM
1360 East Spruce Avenue
Suite 101
Fresno CA 93720

Project Name: CtP PEA
Project #: 60483930.20000
Workorder #: 1604435

Dear Mr. Stuart St. Clair

The following report includes the data for the above referenced project for sample(s) received on 4/21/2016 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,




Kyle Vagadori
Project Manager

WORK ORDER #: 1604435

Work Order Summary

CLIENT:	Mr. Stuart St. Clair AECOM 1360 East Spruce Avenue Suite 101 Fresno, CA 93720	BILL TO:	Accounts Payable Austin AECOM PO Box 203970 Austin, TX 78720
PHONE:	559-448-8222	P.O. #	60483930.20000
FAX:	559-256-1478	PROJECT #	60483930.20000 CtP PEA
DATE RECEIVED:	04/21/2016	CONTACT:	Kyle Vagadori
DATE COMPLETED:	04/27/2016		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	SG-1-5'	TO-15	6.5 "Hg	15 psi
02A	SG-1-5'-DUP	TO-15	8.0 "Hg	15 psi
03A	SG-1-10'	TO-15	7.5 "Hg	15 psi
04A	SG-2-5'	TO-15	8.5 "Hg	15 psi
05A	SG-2-10'	TO-15	5.5 "Hg	15 psi
06A	Lab Blank	TO-15	NA	NA
07A	CCV	TO-15	NA	NA
08A	LCS	TO-15	NA	NA
08AA	LCSD	TO-15	NA	NA

CERTIFIED BY: 

DATE: 04/28/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.

Eurofins Air Toxics Inc. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
AECOM
Workorder# 1604435

Five 1 Liter Summa Canister samples were received on April 21, 2016. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on sample SG-1-10' due to the presence of high level target species.

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

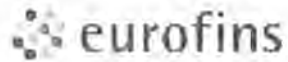
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

Summary of Detected Compounds EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-1-5'

Lab ID#: 1604435-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethyl Benzene	1.3	3.6	5.6	16
m,p-Xylene	1.3	13	5.6	58
o-Xylene	1.3	27	5.6	120
TPH ref. to Gasoline (MW=100)	130	330	530	1300
Naphthalene	2.6	4.7	14	25

Client Sample ID: SG-1-5'-DUP

Lab ID#: 1604435-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethyl Benzene	1.4	3.5	6.0	15
m,p-Xylene	1.4	13	6.0	58
o-Xylene	1.4	27	6.0	120
TPH ref. to Gasoline (MW=100)	140	270	560	1100
Naphthalene	2.8	5.0	14	26

Client Sample ID: SG-1-10'

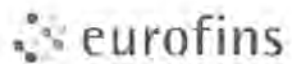
Lab ID#: 1604435-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethyl Benzene	3.0	31	13	140
m,p-Xylene	3.0	240	13	1000
o-Xylene	3.0	760	13	3300
4-Ethyltoluene	3.0	6.7	15	33
1,2,4-Trimethylbenzene	3.0	3.6	15	18
TPH ref. to Gasoline (MW=100)	300	4200	1200	17000

Client Sample ID: SG-2-5'

Lab ID#: 1604435-04A

No Detections Were Found.



City of Toronto

Summary of Detected Compounds EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-2-10'

Lab ID#: 1604435-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Carbon Disulfide	4.9	6.8	15	21



Air Toxics

Client Sample ID: SG-1-5'

Lab ID#: 1604435-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a042508	Date of Collection:	4/19/16 1:47:00 PM
Dil. Factor:	2.58	Date of Analysis:	4/25/16 02:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	Not Detected	6.4	Not Detected
Freon 114	1.3	Not Detected	9.0	Not Detected
Chloromethane	13	Not Detected	27	Not Detected
Vinyl Chloride	1.3	Not Detected	3.3	Not Detected
1,3-Butadiene	1.3	Not Detected	2.8	Not Detected
Bromomethane	13	Not Detected	50	Not Detected
Chloroethane	5.2	Not Detected	14	Not Detected
Freon 11	1.3	Not Detected	7.2	Not Detected
Ethanol	5.2	Not Detected	9.7	Not Detected
Freon 113	1.3	Not Detected	9.9	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.1	Not Detected
Acetone	13	Not Detected	31	Not Detected
2-Propanol	5.2	Not Detected	13	Not Detected
Carbon Disulfide	5.2	Not Detected	16	Not Detected
3-Chloropropene	5.2	Not Detected	16	Not Detected
Methylene Chloride	13	Not Detected	45	Not Detected
Methyl tert-butyl ether	1.3	Not Detected	4.6	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.1	Not Detected
Hexane	1.3	Not Detected	4.5	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.2	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.1	Not Detected
Tetrahydrofuran	1.3	Not Detected	3.8	Not Detected
Chloroform	1.3	Not Detected	6.3	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	7.0	Not Detected
Cyclohexane	1.3	Not Detected	4.4	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.1	Not Detected
2,2,4-Trimethylpentane	1.3	Not Detected	6.0	Not Detected
Benzene	1.3	Not Detected	4.1	Not Detected
1,2-Dichloroethane	1.3	Not Detected	5.2	Not Detected
Heptane	1.3	Not Detected	5.3	Not Detected
Trichloroethene	1.3	Not Detected	6.9	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.0	Not Detected
1,4-Dioxane	5.2	Not Detected	18	Not Detected
Bromodichloromethane	1.3	Not Detected	8.6	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.8	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.3	Not Detected
Toluene	1.3	Not Detected	4.9	Not Detected
trans-1,3-Dichloropropene	1.3	Not Detected	5.8	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.0	Not Detected
Tetrachloroethene	1.3	Not Detected	8.8	Not Detected
2-Hexanone	5.2	Not Detected	21	Not Detected

Client Sample ID: SG-1-5'

Lab ID#: 1604435-01A

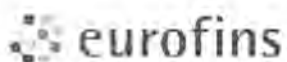
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a042508	Date of Collection:	4/19/16 1:47:00 PM
Dil. Factor:	2.58	Date of Analysis:	4/25/16 02:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.9	Not Detected
Chlorobenzene	1.3	Not Detected	5.9	Not Detected
Ethyl Benzene	1.3	3.6	5.6	16
m,p-Xylene	1.3	13	5.6	58
o-Xylene	1.3	27	5.6	120
Styrene	1.3	Not Detected	5.5	Not Detected
Bromoform	1.3	Not Detected	13	Not Detected
Cumene	1.3	Not Detected	6.3	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.8	Not Detected
Propylbenzene	1.3	Not Detected	6.3	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.3	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.3	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.3	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	7.8	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.8	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.7	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.8	Not Detected
1,2,4-Trichlorobenzene	5.2	Not Detected	38	Not Detected
Hexachlorobutadiene	5.2	Not Detected	55	Not Detected
Isobutane	13	Not Detected	31	Not Detected
TPH ref. to Gasoline (MW=100)	130	330	530	1300
Naphthalene	2.6	4.7	14	25

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	114	70-130



Air Toxics

Client Sample ID: SG-1-5'-DUP

Lab ID#: 1604435-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a042509	Date of Collection: 4/19/16 1:47:00 PM
Dil. Factor:	2.76	Date of Analysis: 4/25/16 03:07 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	Not Detected	6.8	Not Detected
Freon 114	1.4	Not Detected	9.6	Not Detected
Chloromethane	14	Not Detected	28	Not Detected
Vinyl Chloride	1.4	Not Detected	3.5	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	14	Not Detected	54	Not Detected
Chloroethane	5.5	Not Detected	14	Not Detected
Freon 11	1.4	Not Detected	7.8	Not Detected
Ethanol	5.5	Not Detected	10	Not Detected
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	14	Not Detected	33	Not Detected
2-Propanol	5.5	Not Detected	14	Not Detected
Carbon Disulfide	5.5	Not Detected	17	Not Detected
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	14	Not Detected	48	Not Detected
Methyl tert-butyl ether	1.4	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Hexane	1.4	Not Detected	4.9	Not Detected
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.1	Not Detected
Chloroform	1.4	Not Detected	6.7	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Cyclohexane	1.4	Not Detected	4.8	Not Detected
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	Not Detected	6.4	Not Detected
Benzene	1.4	Not Detected	4.4	Not Detected
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	Not Detected	5.6	Not Detected
Trichloroethene	1.4	Not Detected	7.4	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.5	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.2	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.6	Not Detected
Toluene	1.4	Not Detected	5.2	Not Detected
trans-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Tetrachloroethene	1.4	Not Detected	9.4	Not Detected
2-Hexanone	5.5	Not Detected	23	Not Detected

Client Sample ID: SG-1-5'-DUP

Lab ID#: 1604435-02A

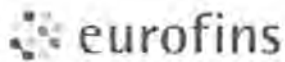
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a042509	Date of Collection:	4/19/16 1:47:00 PM
Dil. Factor:	2.76	Date of Analysis:	4/25/16 03:07 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.4	Not Detected
Ethyl Benzene	1.4	3.5	6.0	15
m,p-Xylene	1.4	13	6.0	58
o-Xylene	1.4	27	6.0	120
Styrene	1.4	Not Detected	5.9	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	Not Detected	6.8	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.5	Not Detected
Propylbenzene	1.4	Not Detected	6.8	Not Detected
4-Ethyltoluene	1.4	Not Detected	6.8	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,2,4-Trichlorobenzene	5.5	Not Detected	41	Not Detected
Hexachlorobutadiene	5.5	Not Detected	59	Not Detected
Isobutane	14	Not Detected	33	Not Detected
TPH ref. to Gasoline (MW=100)	140	270	560	1100
Naphthalene	2.8	5.0	14	26

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	113	70-130



Air Toxics

Client Sample ID: SG-1-10'

Lab ID#: 1604435-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a042510	Date of Collection:	4/19/16 2:17:00 PM
Dil. Factor:	5.99	Date of Analysis:	4/25/16 03:32 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3.0	Not Detected	15	Not Detected
Freon 114	3.0	Not Detected	21	Not Detected
Chloromethane	30	Not Detected	62	Not Detected
Vinyl Chloride	3.0	Not Detected	7.6	Not Detected
1,3-Butadiene	3.0	Not Detected	6.6	Not Detected
Bromomethane	30	Not Detected	120	Not Detected
Chloroethane	12	Not Detected	32	Not Detected
Freon 11	3.0	Not Detected	17	Not Detected
Ethanol	12	Not Detected	22	Not Detected
Freon 113	3.0	Not Detected	23	Not Detected
1,1-Dichloroethene	3.0	Not Detected	12	Not Detected
Acetone	30	Not Detected	71	Not Detected
2-Propanol	12	Not Detected	29	Not Detected
Carbon Disulfide	12	Not Detected	37	Not Detected
3-Chloropropene	12	Not Detected	37	Not Detected
Methylene Chloride	30	Not Detected	100	Not Detected
Methyl tert-butyl ether	3.0	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	3.0	Not Detected	12	Not Detected
Hexane	3.0	Not Detected	10	Not Detected
1,1-Dichloroethane	3.0	Not Detected	12	Not Detected
2-Butanone (Methyl Ethyl Ketone)	12	Not Detected	35	Not Detected
cis-1,2-Dichloroethene	3.0	Not Detected	12	Not Detected
Tetrahydrofuran	3.0	Not Detected	8.8	Not Detected
Chloroform	3.0	Not Detected	15	Not Detected
1,1,1-Trichloroethane	3.0	Not Detected	16	Not Detected
Cyclohexane	3.0	Not Detected	10	Not Detected
Carbon Tetrachloride	3.0	Not Detected	19	Not Detected
2,2,4-Trimethylpentane	3.0	Not Detected	14	Not Detected
Benzene	3.0	Not Detected	9.6	Not Detected
1,2-Dichloroethane	3.0	Not Detected	12	Not Detected
Heptane	3.0	Not Detected	12	Not Detected
Trichloroethene	3.0	Not Detected	16	Not Detected
1,2-Dichloropropane	3.0	Not Detected	14	Not Detected
1,4-Dioxane	12	Not Detected	43	Not Detected
Bromodichloromethane	3.0	Not Detected	20	Not Detected
cis-1,3-Dichloropropene	3.0	Not Detected	14	Not Detected
4-Methyl-2-pentanone	3.0	Not Detected	12	Not Detected
Toluene	3.0	Not Detected	11	Not Detected
trans-1,3-Dichloropropene	3.0	Not Detected	14	Not Detected
1,1,2-Trichloroethane	3.0	Not Detected	16	Not Detected
Tetrachloroethene	3.0	Not Detected	20	Not Detected
2-Hexanone	12	Not Detected	49	Not Detected

Client Sample ID: SG-1-10'

Lab ID#: 1604435-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a042510	Date of Collection:	4/19/16 2:17:00 PM
Dil. Factor:	5.99	Date of Analysis:	4/25/16 03:32 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	3.0	Not Detected	26	Not Detected
1,2-Dibromoethane (EDB)	3.0	Not Detected	23	Not Detected
Chlorobenzene	3.0	Not Detected	14	Not Detected
Ethyl Benzene	3.0	31	13	140
m,p-Xylene	3.0	240	13	1000
o-Xylene	3.0	760	13	3300
Styrene	3.0	Not Detected	13	Not Detected
Bromoform	3.0	Not Detected	31	Not Detected
Cumene	3.0	Not Detected	15	Not Detected
1,1,2,2-Tetrachloroethane	3.0	Not Detected	20	Not Detected
Propylbenzene	3.0	Not Detected	15	Not Detected
4-Ethyltoluene	3.0	6.7	15	33
1,3,5-Trimethylbenzene	3.0	Not Detected	15	Not Detected
1,2,4-Trimethylbenzene	3.0	3.6	15	18
1,3-Dichlorobenzene	3.0	Not Detected	18	Not Detected
1,4-Dichlorobenzene	3.0	Not Detected	18	Not Detected
alpha-Chlorotoluene	3.0	Not Detected	16	Not Detected
1,2-Dichlorobenzene	3.0	Not Detected	18	Not Detected
1,2,4-Trichlorobenzene	12	Not Detected	89	Not Detected
Hexachlorobutadiene	12	Not Detected	130	Not Detected
Isobutane	30	Not Detected	71	Not Detected
TPH ref. to Gasoline (MW=100)	300	4200	1200	17000
Naphthalene	6.0	Not Detected	31	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	115	70-130



AIR TOXICS

Client Sample ID: SG-2-5'

Lab ID#: 1604435-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a042511	Date of Collection:	4/19/16 10:46:00 AM
Dil. Factor:	2.82	Date of Analysis:	4/25/16 04:03 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	Not Detected	7.0	Not Detected
Freon 114	1.4	Not Detected	9.8	Not Detected
Chloromethane	14	Not Detected	29	Not Detected
Vinyl Chloride	1.4	Not Detected	3.6	Not Detected
1,3-Butadiene	1.4	Not Detected	3.1	Not Detected
Bromomethane	14	Not Detected	55	Not Detected
Chloroethane	5.6	Not Detected	15	Not Detected
Freon 11	1.4	Not Detected	7.9	Not Detected
Ethanol	5.6	Not Detected	11	Not Detected
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Acetone	14	Not Detected	33	Not Detected
2-Propanol	5.6	Not Detected	14	Not Detected
Carbon Disulfide	5.6	Not Detected	18	Not Detected
3-Chloropropene	5.6	Not Detected	18	Not Detected
Methylene Chloride	14	Not Detected	49	Not Detected
Methyl tert-butyl ether	1.4	Not Detected	5.1	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Hexane	1.4	Not Detected	5.0	Not Detected
1,1-Dichloroethane	1.4	Not Detected	5.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.6	Not Detected	17	Not Detected
cis-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.2	Not Detected
Chloroform	1.4	Not Detected	6.9	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Cyclohexane	1.4	Not Detected	4.8	Not Detected
Carbon Tetrachloride	1.4	Not Detected	8.9	Not Detected
2,2,4-Trimethylpentane	1.4	Not Detected	6.6	Not Detected
Benzene	1.4	Not Detected	4.5	Not Detected
1,2-Dichloroethane	1.4	Not Detected	5.7	Not Detected
Heptane	1.4	Not Detected	5.8	Not Detected
Trichloroethene	1.4	Not Detected	7.6	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.5	Not Detected
1,4-Dioxane	5.6	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.4	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.8	Not Detected
Toluene	1.4	Not Detected	5.3	Not Detected
trans-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Tetrachloroethene	1.4	Not Detected	9.6	Not Detected
2-Hexanone	5.6	Not Detected	23	Not Detected

Client Sample ID: SG-2-5'

Lab ID#: 1604435-04A

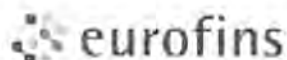
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a042511	Date of Collection:	4/19/16 10:46:00 AM
Dil. Factor:	2.82	Date of Analysis:	4/25/16 04:03 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.5	Not Detected
Ethyl Benzene	1.4	Not Detected	6.1	Not Detected
m,p-Xylene	1.4	Not Detected	6.1	Not Detected
o-Xylene	1.4	Not Detected	6.1	Not Detected
Styrene	1.4	Not Detected	6.0	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	Not Detected	6.9	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.7	Not Detected
Propylbenzene	1.4	Not Detected	6.9	Not Detected
4-Ethyltoluene	1.4	Not Detected	6.9	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.9	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	6.9	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.3	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
1,2,4-Trichlorobenzene	5.6	Not Detected	42	Not Detected
Hexachlorobutadiene	5.6	Not Detected	60	Not Detected
Isobutane	14	Not Detected	34	Not Detected
TPH ref. to Gasoline (MW=100)	140	Not Detected	580	Not Detected
Naphthalene	2.8	Not Detected	15	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	112	70-130



Air Toxic

Client Sample ID: SG-2-10'

Lab ID#: 1604435-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a042512	Date of Collection:	4/19/16 11:04:00 AM
Dil. Factor:	2.47	Date of Analysis:	4/25/16 04:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.1	Not Detected
Freon 114	1.2	Not Detected	8.6	Not Detected
Chloromethane	12	Not Detected	26	Not Detected
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Bromomethane	12	Not Detected	48	Not Detected
Chloroethane	4.9	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.9	Not Detected
Ethanol	4.9	Not Detected	9.3	Not Detected
Freon 113	1.2	Not Detected	9.5	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Acetone	12	Not Detected	29	Not Detected
2-Propanol	4.9	Not Detected	12	Not Detected
Carbon Disulfide	4.9	6.8	15	21
3-Chloropropene	4.9	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	43	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Hexane	1.2	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.9	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
Chloroform	1.2	Not Detected	6.0	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Cyclohexane	1.2	Not Detected	4.2	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.8	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.8	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Heptane	1.2	Not Detected	5.1	Not Detected
Trichloroethene	1.2	Not Detected	6.6	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.7	Not Detected
1,4-Dioxane	4.9	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.3	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Tetrachloroethene	1.2	Not Detected	8.4	Not Detected
2-Hexanone	4.9	Not Detected	20	Not Detected

Client Sample ID: SG-2-10'

Lab ID#: 1604435-05A

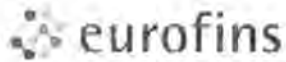
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a042512	Date of Collection:	4/19/16 11:04:00 AM
Dil. Factor:	2.47	Date of Analysis:	4/25/16 04:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.5	Not Detected
Chlorobenzene	1.2	Not Detected	5.7	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
m,p-Xylene	1.2	Not Detected	5.4	Not Detected
o-Xylene	1.2	Not Detected	5.4	Not Detected
Styrene	1.2	Not Detected	5.3	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
Cumene	1.2	Not Detected	6.1	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.5	Not Detected
Propylbenzene	1.2	Not Detected	6.1	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.1	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.4	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	4.9	Not Detected	37	Not Detected
Hexachlorobutadiene	4.9	Not Detected	53	Not Detected
Isobutane	12	Not Detected	29	Not Detected
TPH ref. to Gasoline (MW=100)	120	Not Detected	500	Not Detected
Naphthalene	2.5	Not Detected	13	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	111	70-130



AIR TOXICS

Client Sample ID: Lab Blank

Lab ID#: 1604435-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a042507a	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	4/25/16 01:22 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1604435-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a042507a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/25/16 01:22 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Isobutane	5.0	Not Detected	12	Not Detected
TPH ref. to Gasoline (MW=100)	50	Not Detected	200	Not Detected
Naphthalene	1.0	Not Detected	5.2	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	113	70-130



AIR TOXICS

Client Sample ID: CCV

Lab ID#: 1604435-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a042502	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/25/16 10:03 AM

Compound	%Recovery
Freon 12	96
Freon 114	95
Chloromethane	84
Vinyl Chloride	95
1,3-Butadiene	88
Bromomethane	96
Chloroethane	92
Freon 11	90
Ethanol	79
Freon 113	92
1,1-Dichloroethene	97
Acetone	94
2-Propanol	78
Carbon Disulfide	93
3-Chloropropene	92
Methylene Chloride	84
Methyl tert-butyl ether	91
trans-1,2-Dichloroethene	94
Hexane	88
1,1-Dichloroethane	90
2-Butanone (Methyl Ethyl Ketone)	89
cis-1,2-Dichloroethene	93
Tetrahydrofuran	80
Chloroform	91
1,1,1-Trichloroethane	87
Cyclohexane	90
Carbon Tetrachloride	84
2,2,4-Trimethylpentane	91
Benzene	91
1,2-Dichloroethane	87
Heptane	95
Trichloroethene	91
1,2-Dichloropropane	86
1,4-Dioxane	87
Bromodichloromethane	89
cis-1,3-Dichloropropene	90
4-Methyl-2-pentanone	82
Toluene	89
trans-1,3-Dichloropropene	82
1,1,2-Trichloroethane	82
Tetrachloroethene	83
2-Hexanone	73

Client Sample ID: CCV

Lab ID#: 1604435-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a042502	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/25/16 10:03 AM

Compound	%Recovery
Dibromochloromethane	81
1,2-Dibromoethane (EDB)	81
Chlorobenzene	82
Ethyl Benzene	81
m,p-Xylene	83
o-Xylene	85
Styrene	79
Bromoform	83
Cumene	83
1,1,2,2-Tetrachloroethane	78
Propylbenzene	80
4-Ethyltoluene	86
1,3,5-Trimethylbenzene	79
1,2,4-Trimethylbenzene	82
1,3-Dichlorobenzene	83
1,4-Dichlorobenzene	82
alpha-Chlorotoluene	78
1,2-Dichlorobenzene	83
1,2,4-Trichlorobenzene	82
Hexachlorobutadiene	85
Isobutane	101
TPH ref. to Gasoline (MW=100)	100
Naphthalene	75

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	112	70-130

Client Sample ID: LCS

Lab ID#: 1604435-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a042503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/25/16 10:29 AM

Compound	%Recovery	Method Limits
Freon 12	98	70-130
Freon 114	100	70-130
Chloromethane	85	70-130
Vinyl Chloride	96	70-130
1,3-Butadiene	87	70-130
Bromomethane	98	70-130
Chloroethane	95	70-130
Freon 11	93	70-130
Ethanol	84	70-130
Freon 113	92	70-130
1,1-Dichloroethene	95	70-130
Acetone	88	70-130
2-Propanol	86	70-130
Carbon Disulfide	82	70-130
3-Chloropropene	87	70-130
Methylene Chloride	83	70-130
Methyl tert-butyl ether	91	70-130
trans-1,2-Dichloroethene	94	70-130
Hexane	88	70-130
1,1-Dichloroethane	91	70-130
2-Butanone (Methyl Ethyl Ketone)	89	70-130
cis-1,2-Dichloroethene	92	70-130
Tetrahydrofuran	78	70-130
Chloroform	91	70-130
1,1,1-Trichloroethane	86	70-130
Cyclohexane	91	70-130
Carbon Tetrachloride	85	70-130
2,2,4-Trimethylpentane	92	70-130
Benzene	91	70-130
1,2-Dichloroethane	88	70-130
Heptane	94	70-130
Trichloroethene	90	70-130
1,2-Dichloropropane	85	70-130
1,4-Dioxane	87	70-130
Bromodichloromethane	91	70-130
cis-1,3-Dichloropropene	84	70-130
4-Methyl-2-pentanone	87	70-130
Toluene	89	70-130
trans-1,3-Dichloropropene	79	70-130
1,1,2-Trichloroethane	80	70-130
Tetrachloroethene	84	70-130
2-Hexanone	79	70-130

Client Sample ID: LCS

Lab ID#: 1604435-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a042503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/25/16 10:29 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	80	70-130
1,2-Dibromoethane (EDB)	80	70-130
Chlorobenzene	79	70-130
Ethyl Benzene	80	70-130
m,p-Xylene	82	70-130
o-Xylene	85	70-130
Styrene	82	70-130
Bromoform	84	70-130
Cumene	82	70-130
1,1,2,2-Tetrachloroethane	76	70-130
Propylbenzene	81	70-130
4-Ethyltoluene	85	70-130
1,3,5-Trimethylbenzene	80	70-130
1,2,4-Trimethylbenzene	83	70-130
1,3-Dichlorobenzene	81	70-130
1,4-Dichlorobenzene	81	70-130
alpha-Chlorotoluene	83	70-130
1,2-Dichlorobenzene	83	70-130
1,2,4-Trichlorobenzene	89	70-130
Hexachlorobutadiene	91	70-130
Isobutane	Not Spiked	
TPH ref. to Gasoline (MW=100)	Not Spiked	
Naphthalene	89	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	113	70-130

Client Sample ID: LCSD

Lab ID#: 1604435-08AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a042504	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/25/16 10:56 AM

Compound	%Recovery	Method Limits
Freon 12	95	70-130
Freon 114	97	70-130
Chloromethane	81	70-130
Vinyl Chloride	94	70-130
1,3-Butadiene	83	70-130
Bromomethane	98	70-130
Chloroethane	94	70-130
Freon 11	90	70-130
Ethanol	78	70-130
Freon 113	90	70-130
1,1-Dichloroethene	93	70-130
Acetone	86	70-130
2-Propanol	84	70-130
Carbon Disulfide	80	70-130
3-Chloropropene	82	70-130
Methylene Chloride	80	70-130
Methyl tert-butyl ether	90	70-130
trans-1,2-Dichloroethene	92	70-130
Hexane	87	70-130
1,1-Dichloroethane	87	70-130
2-Butanone (Methyl Ethyl Ketone)	87	70-130
cis-1,2-Dichloroethene	89	70-130
Tetrahydrofuran	78	70-130
Chloroform	89	70-130
1,1,1-Trichloroethane	84	70-130
Cyclohexane	88	70-130
Carbon Tetrachloride	83	70-130
2,2,4-Trimethylpentane	89	70-130
Benzene	90	70-130
1,2-Dichloroethane	87	70-130
Heptane	93	70-130
Trichloroethene	91	70-130
1,2-Dichloropropane	86	70-130
1,4-Dioxane	85	70-130
Bromodichloromethane	89	70-130
cis-1,3-Dichloropropene	83	70-130
4-Methyl-2-pentanone	85	70-130
Toluene	87	70-130
trans-1,3-Dichloropropene	80	70-130
1,1,2-Trichloroethane	79	70-130
Tetrachloroethene	84	70-130
2-Hexanone	78	70-130

Client Sample ID: LCSD

Lab ID#: 1604435-08AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a042504	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/25/16 10:56 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	79	70-130
1,2-Dibromoethane (EDB)	78	70-130
Chlorobenzene	80	70-130
Ethyl Benzene	79	70-130
m,p-Xylene	80	70-130
o-Xylene	84	70-130
Styrene	82	70-130
Bromoform	84	70-130
Cumene	81	70-130
1,1,2,2-Tetrachloroethane	75	70-130
Propylbenzene	80	70-130
4-Ethyltoluene	81	70-130
1,3,5-Trimethylbenzene	84	70-130
1,2,4-Trimethylbenzene	83	70-130
1,3-Dichlorobenzene	80	70-130
1,4-Dichlorobenzene	80	70-130
alpha-Chlorotoluene	82	70-130
1,2-Dichlorobenzene	82	70-130
1,2,4-Trichlorobenzene	89	70-130
Hexachlorobutadiene	92	70-130
Isobutane	Not Spiked	
TPH ref. to Gasoline (MW=100)	Not Spiked	
Naphthalene	91	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	113	70-130

Sample Transportation Notice

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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Stuart St. Clair
 Collected by: (Print and Sign) Chad Neptune
 Company AECOM Email _____
 Address 1360 ESPRICE AVE Suite 101 City Fresno State CA Zip 93720
 Phone (559) 448-8222 Fax _____

Project Info: P.O. # _____ Project # <u>60483930.20000</u> Project Name <u>CR PEA</u>	Turn Around Time: <input type="checkbox"/> Normal <input checked="" type="checkbox"/> Rush <u>1 week</u> <small>specify</small>	<small>Lab Use Only</small> Pressurized by _____ Date: _____ Pressurization Gas: _____ N ₂ He
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Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
01a	SG-1-5'	33398	4/19/16	1347	VOCs + Naphthalene (TO-15)	-30	-6		
02a	SG-1-5' Dup	35561	4/19/16	1347	↓	-30	-5		
03a	SG-1-10'	37323	4/19/16	1417		-30	-5		
04a	SG-2-5' 33717	33635	4/20/16	1046		-30	-5		
05a	SG-2-10'	33635	4/20/16	1104		-30	-5		

Relinquished by: (signature) <u>Chad Neptune</u> Date/Time <u>4/20/16 1333</u>	Received by: (signature) <u>Fedex</u> Date/Time <u>4/20/16 1333</u>
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) <u>Ilmi Lig EATL</u> Date/Time <u>0955 4/21/16</u>
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____

Notes: Analyze for Isobutane as tracer gas.

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>Fedex</u>		<u>N/A</u>	<u>Good</u>	Yes No <u>None</u>	<u>1604435</u>



Alpha Scientific Corporation
Environmental Laboratories

06-03-2016

Mr. Stuart St. Clair
AECOM / URS Corporation
1360 E. Spruce Ave, Suite 101
Fresno, CA 93720

Project: 60483930.20000
Project Site: Church and Peach PEA
Sample Date: 05-26-2016
Lab Job No.: UR605107

Dear Mr. St. Clair:

Enclosed please find the analytical report for the sample(s) received by Alpha Scientific Corporation on 05-27-2016 and analyzed for the following analytes:

EPA 8081A (Organochlorine Pesticides)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

Alpha Scientific Corporation is a CA DHS certified laboratory (Certificate Number 2633). Thank you for giving us the opportunity to serve you. Please feel free to call me at (562) 809-8880 if our laboratory can be of further service to you.

Sincerely,

Roger Wang, Ph. D.
Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM / URS Corporation
 Project: 60483930.20000
 Project Site: Church and Peach PEA
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: AF02-PS1

Lab Job No.: UR605107
 Date Sampled: 05-26-2016
 Date Received: 05-27-2016
 Date Extracted: 06-01-2016
 Date Analyzed: 06-02-2016
 Date Reported: 06-03-2016

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (ppb)

LAB SAMPLE I.D.			MB	UR605107-1	UR605107-2	UR605107-3	UR605107-4
CLIENT SAMPLE I.D.				EH-14-0.5'	EH-15-0.5'	EH-16-0.5'	EH-17-0.5'
DILUTION FACTOR			1	1	1	1	1
COMPOUND	MDL	PQL					
Alpha-BHC	3	5	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	3	5	ND	ND	ND	ND	ND
Heptachlor	3	5	ND	ND	ND	ND	ND
Aldrin	3	5	ND	ND	ND	ND	ND
Beta-BHC	3	5	ND	ND	ND	ND	ND
Delta-BHC	3	5	ND	ND	ND	ND	ND
Heptachlor Epoxide	3	5	ND	ND	ND	ND	ND
Endosulfan I	3	5	ND	ND	ND	ND	ND
4,4'-DDE	3	5	ND	173*	272*	249*	22.1
Dieldrin	3	5	ND	17.3	11.2	ND	5.7
Endrin	3	5	ND	ND	ND	ND	ND
4,4'-DDD	3	5	ND	ND	ND	ND	ND
Endosulfan II	3	5	ND	ND	ND	ND	ND
4,4'-DDT	3	5	ND	19.9	21.6	22.8	3.2
Endrin Aldehyde	3	5	ND	ND	ND	ND	ND
Endosulfan Sulfate	3	5	ND	ND	ND	ND	ND
Methoxychlor	3	5	ND	ND	ND	ND	ND
Alpha-Chlordane	3	5	ND	75.5	37.3	12.9	21.8
Gamma-Chlordane	3	5	ND	55.2	30.1	8.5	14.0
Total Chlordane	15	25	ND	245	167	46.8	55.8
Toxaphene	60	100	ND	ND	ND	ND	ND
Endrin Ketone	30	50	ND	ND	ND	ND	ND
Hexachlorobenzene(HCB)	200	300	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	300	500	ND	ND	ND	ND	ND
SURROGATE	Accept Limit%	%RC	%RC	%RC	%RC	%RC	%RC
Surrogate Standard	60-140	83	89	84	85	82	

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
 ND=Not Detected (below DF × MDL); %RC=Percent Recovery.
 * = Obtained from a higher dilution analysis.



Alpha Scientific Corporation

Environmental Laboratories

EPA 8081A (Pesticides) Batch QA/QC Report

Client: AECOM / URS Corporation
Project: 60483930.20000
Matrix: Soil
Batch No.: AF02-PS1

Lab Job No.: UR605107
Lab Sample I.D.: UR606002-1
Date Analyzed: 06-02-2016

I. MS/MSD Report Unit: ppb

Analyte	Method Blank	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Gamma-BHC	ND	20	16.0	16.2	80.0	81.0	1.2	30	46-127
Heptachlor	ND	20	17.8	18.1	89.0	90.5	1.7	30	31-134
Aldrin	ND	20	16.2	16.8	81.0	84.0	3.6	30	36-132
Dieldrin	ND	20	16.6	17.0	83.0	85.0	2.4	30	21-134
Endrin	ND	20	17.0	17.2	85.0	86.0	1.2	30	42-139
4,4'-DDT	ND	20	17.7	18.5	88.5	92.5	4.4	30	21-134

II. LCS Result Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	Accept. Limit
Gamma-BHC	17.6	20	88.0	80-120
Heptachlor	19.9	20	99.5	80-120
Aldrin	18.1	20	90.5	80-120
Dieldrin	16.5	20	82.5	80-120
Endrin	17.4	20	87.0	80-120
4,4'-DDT	17.6	20	88.0	80-120

ND: Not Detected.



Alpha Scientific Corporation

Environmental Laboratories

MultiLevel Quality Control Sign Off (Soil Sample)

Sample Preparation		Extraction/Digestion/Preparation according to SOP# ASC3550B-1		
HT met: HT Date(s): 06-10-2016 Ext. Date: 06-01-2016	Yes: **	No:	NA:	
Sample container Labels checked at all stages	Yes: **	No:	NA:	
Sample preservation checked	Yes: **	No:	NA:	
Sample preservation acceptable:	Yes: **	No:	NA:	
Sufficient sample provided for method QC:	Yes: **	No:	NA:	
Proper number of QC samples performed per method:	Yes: **	No:	NA:	
Specific QC requirements of client performed:	Yes **	No:	NA:	
Were soil samples corrected for % moisture:	Yes	No: **	NA:	
Proper number of blanks performed:	Yes: **	No:	NA:	
Brought to final volume and labeled properly:	Yes: **	No:	NA:	
Entered information into proper lab notebooks:	Yes: **	No:	NA:	
Deviations to any of the above items:	Yes:	No: **	NA:	
Reasons/explanation for deviation & supervisors initial:				
Name of technician(s) or chemist/Date GG /06-03-2016				
Name of reviewer/Date Sue /06-03-2016				
Comments:				
Instrumentation Analyses		Samples analyzed according to SOP# ASC8081-1		
Holding time met for all analyses:	Yes: **	No:	NA:	
Calibrations include all pertinent analytes:	Yes: **	No:	NA:	
Initial calibration in control:	Yes: **	No:	NA:	
Second source calibrations in control:	Yes: **	No:	NA:	
LCS(/LCSD) passes:	Yes: **	No:	NA:	
Method blank/calibration blank passes:	Yes: **	No:	NA:	
Matrix Duplicate and MS/MSD passes:	Yes: **	No:	NA:	
Surrogate passes:	Yes: **	No:	NA:	
Results transcribed correctly from raw data:	Yes: **	No:	NA:	
Do the dilutions agree?	Yes: **	No:	NA:	
Were soil samples corrected for % moisture:	Yes:	No: **	NA:	
Manual integration 2nd level review:	Yes:	No:	NA: **	
Deviations to any of the above items:	Yes:	No: **	NA:	
Reasons/explanation for deviation & supervisors initial:				
Name of analyst(s)/Date: GG /06-03-2016				
Name of Data entry/Date: GG /06-03-2016				
Name of reviewer/Date: Sue/ 06-03-2016				
Comments:				



ALPHA SCIENTIFIC CORPORATION
CHAIN OF CUSTODY RECORD

Client: <u>AECOM</u>						Analyses Requested										T.A.T. Requested <input type="checkbox"/> 8 hrs <input type="checkbox"/> 24 hrs <input type="checkbox"/> 48 hrs <input type="checkbox"/> 3 days <input checked="" type="checkbox"/> Normal		
Address <u>1360 E SPROUCE AVE Suite 101, Fresno, CA 95720</u>																Sample Condition <input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample seals		
Report Attention <u>Stuart Stolar</u>		Phone		Fax												Sampled by <u>C. Neptune</u>		Project Name/No. <u>60483930.20000</u>
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	TPH-Gasoline	TPH-Diesel	8260B (BTEX, Oxygenates)	8260B (VOCs)	8270C (SVOCs)	CAM Metals	8082 (PCBs)	8081A (OCPS)	Remark			
		Date	Time															
<u>EH-14-05</u>	<u>UR605107-1</u>	<u>5/26/16</u>	<u>1157</u>	<u>Soil</u>	<u>N/A</u>	<u>2 55L canisters</u>								<u>X</u>				
<u>EH-15-05</u>	<u>-2</u>		<u>1213</u>			<u>1</u>								<u>X</u>				
<u>EH-16-05</u>	<u>-3</u>		<u>1230</u>											<u>X</u>				
<u>EH-17-05</u>	<u>-4</u>		<u>1248</u>											<u>X</u>				
<u>EH-14-1.5</u>			<u>1206</u>											<u>X</u>			<u>Hold</u>	
<u>EH-15-1.5</u>			<u>1220</u>			<u>10000</u>								<u>X</u>			<u>Hold</u>	
<u>EH-16-1.5</u>		<u>V</u>	<u>1242</u>	<u>V</u>	<u>V</u>	<u>V</u>								<u>X</u>			<u>Hold</u>	
<u>EH-17-1.5</u>		<u>V</u>	<u>1256</u>	<u>V</u>	<u>V</u>	<u>V</u>								<u>X</u>			<u>Hold</u>	
Relinquished by <u>[Signature]</u>		Company <u>AECOM</u>		Date <u>5/26/16</u>	Time <u>1630</u>	Received by <u>[Signature]</u>		Company <u>ASC</u>		Date <u>5/27/16</u>	Time <u>4:25 AM</u>	Container types: M=Metal Tube A=Air Bag P=Plastic bottle G=Glass bottle V=VOA vial						

APPENDIX E

Human Health Screening Details

ISM Calculator for 1-sided Upper Confidence Limit (UCL) for the Mean

Note on Selecting a UCL Method. This worksheet can be used to calculate a 95UCL from ISM data using both the Chebyshev and Student's-t methods. If you have discrete data or other knowledge that indicates the variability in contaminant concentrations within the DU is low, use the Student's t method. If discrete data or other knowledge suggests that the variability may be high or the variability is unknown, use the Chebyshev method. Because the Chebyshev method tends to yield higher UCL values for the same data set, its statistical performance is desirable - it achieves the desired 95% coverage of the mean under conditions when the variability of concentrations throughout the DU are moderate or high (See Table 4-4). One drawback of this performance is that the Chebyshev will tend to more severely overestimate the true mean than Student's t. Nevertheless, if no discrete data are available to estimate this variability, then Chebyshev is generally preferred over Student's t. Do not mistake the standard deviation (SD) of replicates as a measure of this variability. The SD of replicates is a measure of consistency in estimates of the mean - this is considered a reliable indicator of the laboratory processing steps, but not an indicator of the degree of variability in the distribution of concentrations throughout the DU.

Replicate Number	Replicate Results		Summary Statistics		Notes
	Arsenic	Lead	Stats A	Stats B	
Rep 1	2.2	20.90	--	--	If you have replicate ISM results, enter data in the first section "Replicate Results" If you have summary statistics, enter data in the second section "Summary Statistics"
Rep 2	1.5	22.20	--	--	
Rep 3	1.5	23.30	--	--	
Rep 4			--	--	
Rep 5			--	--	
arithmetic mean	1.733	22.133			sample mean of replicate results
standard deviation	0.404	1.201			sample standard deviation of replicate results
CV = SD / mean	0.233	0.054			CV gives a measure of spread of the replicates, which is different from CV of underlying distribution
count (r)	3	3			For ISM, the sample size in the UCL calculation is the number of replicates, not the number of increments.
alpha (95% = 0.05)	0.05	0.05	0.05	0.05	standard choice is alpha = 0.05
t(alpha, df=r-1)	2.92	2.92			from Student's t distribution
Student's t UCL	2.41	24.16			Note that the UCL for these relatively small sample sizes will typically exceed the maximum.
Chebyshev UCL	2.75	25.16			The calculated UCL should be used (do not use the maximum).

UCL Statistics for Data Sets with Non-Detects

User Selected Options

Date/Time of Computation 5/5/2016 3:57:58 PM
 From File Arsenic.xls
 Full Precision OFF
 Confidence Coefficient 95%
 Number of Bootstrap Operations 2000

Arsenic

General Statistics

Total Number of Observations	67	Number of Distinct Observations	34
Number of Detects	56	Number of Non-Detects	11
Number of Distinct Detects	33	Number of Distinct Non-Detects	1
Minimum Detect	0.65	Minimum Non-Detect	0.5
Maximum Detect	18.4	Maximum Non-Detect	0.5
Variance Detects	7.044	Percent Non-Detects	16.42%
Mean Detects	1.828	SD Detects	2.654
Median Detects	1.1	CV Detects	1.452
Skewness Detects	5.159	Kurtosis Detects	29.6
Mean of Logged Detects	0.282	SD of Logged Detects	0.638

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.406	Normal GOF Test on Detected Observations Only
5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.329	Lilliefors GOF Test
5% Lilliefors Critical Value	0.118	Detected Data Not Normal at 5% Significance Level
Detected Data Not Normal at 5% Significance Level		

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	1.61	Standard Error of Mean	0.303
SD	2.454	95% KM (BCA) UCL	2.14
95% KM (t) UCL	2.115	95% KM (Percentile Bootstrap) UCL	2.158
95% KM (z) UCL	2.108	95% KM Bootstrap t UCL	3.039
90% KM Chebyshev UCL	2.518	95% KM Chebyshev UCL	2.929
97.5% KM Chebyshev UCL	3.5	99% KM Chebyshev UCL	4.621

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	6.065	Anderson-Darling GOF Test
5% A-D Critical Value	0.766	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.278	Kolmogrov-Smirnov GOF
5% K-S Critical Value	0.121	Detected Data Not Gamma Distributed at 5% Significance Level
Detected Data Not Gamma Distributed at 5% Significance Level		

Gamma Statistics on Detected Data Only

k hat (MLE)	1.705	k star (bias corrected MLE)	1.626
Theta hat (MLE)	1.072	Theta star (bias corrected MLE)	1.124
nu hat (MLE)	191	nu star (bias corrected)	182.1
MLE Mean (bias corrected)	1.828	MLE Sd (bias corrected)	1.434

Gamma Kaplan-Meier (KM) Statistics

UCL Statistics for Data Sets with Non-Detects

User Selected Options

Date/Time of Computation 5/5/2016 4:05:44 PM
 From File Lead_a.xls
 Full Precision OFF
 Confidence Coefficient 95%
 Number of Bootstrap Operations 2000

Lead

General Statistics

Total Number of Observations	58	Number of Distinct Observations	46
Number of Detects	54	Number of Non-Detects	4
Number of Distinct Detects	46	Number of Distinct Non-Detects	1
Minimum Detect	1.6	Minimum Non-Detect	2
Maximum Detect	113	Maximum Non-Detect	2
Variance Detects	410.4	Percent Non-Detects	6.897%
Mean Detects	12.76	SD Detects	20.26
Median Detects	6.55	CV Detects	1.588
Skewness Detects	3.684	Kurtosis Detects	14.64
Mean of Logged Detects	1.947	SD of Logged Detects	0.999

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.53	Normal GOF Test on Detected Observations Only
5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.291	Lilliefors GOF Test
5% Lilliefors Critical Value	0.121	Detected Data Not Normal at 5% Significance Level
Detected Data Not Normal at 5% Significance Level		

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	11.99	Standard Error of Mean	2.594
SD	19.57	95% KM (BCA) UCL	16.64
95% KM (t) UCL	16.33	95% KM (Percentile Bootstrap) UCL	16.54
95% KM (z) UCL	16.26	95% KM Bootstrap t UCL	20.4
90% KM Chebyshev UCL	19.77	95% KM Chebyshev UCL	23.3
97.5% KM Chebyshev UCL	28.19	99% KM Chebyshev UCL	37.8

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	2.454	Anderson-Darling GOF Test
5% A-D Critical Value	0.781	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.13	Kolmogrov-Smirnoff GOF
5% K-S Critical Value	0.125	Detected Data Not Gamma Distributed at 5% Significance Level
Detected Data Not Gamma Distributed at 5% Significance Level		

Gamma Statistics on Detected Data Only

k hat (MLE)	0.967	k star (bias corrected MLE)	0.926
Theta hat (MLE)	13.19	Theta star (bias corrected MLE)	13.78
nu hat (MLE)	104.5	nu star (bias corrected)	100
MLE Mean (bias corrected)	12.76	MLE Sd (bias corrected)	13.26

Gamma Kaplan-Meier (KM) Statistics

A	B	C	D	E	F	G	H	I	J	K	L
53				k hat (KM)	0.375					nu hat (KM)	43.54
54				Approximate Chi Square Value (43.54, α)	29.41					Adjusted Chi Square Value (43.54, β)	29.12
55				95% Gamma Approximate KM-UCL (use when $n \geq 50$)	17.75					95% Gamma Adjusted KM-UCL (use when $n < 50$)	17.93
56											
57				Gamma ROS Statistics using Imputed Non-Detects							
58				GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs							
59				GROS may not be used when kstar of detected data is small such as < 0.1							
60				For such situations, GROS method tends to yield inflated values of UCLs and BTVs							
61				For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates							
62				Minimum	0.01					Mean	11.88
63				Maximum	113					Median	6.1
64				SD	19.8					CV	1.668
65				k hat (MLE)	0.627					k star (bias corrected MLE)	0.606
66				Theta hat (MLE)	18.95					Theta star (bias corrected MLE)	19.6
67				nu hat (MLE)	72.7					nu star (bias corrected)	70.28
68				MLE Mean (bias corrected)	11.88					MLE Sd (bias corrected)	15.26
69										Adjusted Level of Significance (β)	0.0459
70				Approximate Chi Square Value (70.28, α)	51.98					Adjusted Chi Square Value (70.28, β)	51.58
71				95% Gamma Approximate UCL (use when $n \geq 50$)	16.06					95% Gamma Adjusted UCL (use when $n < 50$)	16.18
72											
73				Lognormal GOF Test on Detected Observations Only							
74				Lilliefors Test Statistic	0.119					Lilliefors GOF Test	
75				5% Lilliefors Critical Value	0.121					Detected Data appear Lognormal at 5% Significance Level	
76				Detected Data appear Approximate Lognormal at 5% Significance Level							
77											
78				Lognormal ROS Statistics Using Imputed Non-Detects							
79				Mean in Original Scale	11.94					Mean in Log Scale	1.807
80				SD in Original Scale	19.77					SD in Log Scale	1.097
81				95% t UCL (assumes normality of ROS data)	16.28					95% Percentile Bootstrap UCL	16.27
82				95% BCA Bootstrap UCL	18.34					95% Bootstrap t UCL	20.4
83				95% H-UCL (Log ROS)	15.97						
84											
85				UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed							
86				KM Mean (logged)	1.847					95% H-UCL (KM -Log)	14.77
87				KM SD (logged)	1.023					95% Critical H Value (KM-Log)	2.376
88				KM Standard Error of Mean (logged)	0.136						
89											
90				DL/2 Statistics							
91				DL/2 Normal				DL/2 Log-Transformed			
92				Mean in Original Scale	11.94					Mean in Log Scale	1.813
93				SD in Original Scale	19.76					SD in Log Scale	1.085
94				95% t UCL (Assumes normality)	16.28					95% H-Stat UCL	15.73
95				DL/2 is not a recommended method, provided for comparisons and historical reasons							
96											
97				Nonparametric Distribution Free UCL Statistics							
98				Detected Data appear Approximate Lognormal Distributed at 5% Significance Level							
99											
100				Suggested UCL to Use							
101				95% KM (Chebyshev) UCL	23.3						
102											
103				Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.							
104				Recommendations are based upon data size, data distribution, and skewness.							

A B C D E F G H I J K L

105 These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006),

106 However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

107

UCL Statistics for Data Sets with Non-Detects

User Selected Options

Date/Time of Computation 5/5/2016 4:20:08 PM
 From File Chlordane.xls
 Full Precision OFF
 Confidence Coefficient 95%
 Number of Bootstrap Operations 2000

Chlordane

General Statistics

Total Number of Observations	16	Number of Distinct Observations	16
		Number of Missing Observations	60
Minimum	19.5	Mean	197.8
Maximum	1670	Median	38.75
SD	418.1	Std. Error of Mean	104.5
Coefficient of Variation	2.114	Skewness	3.342

Normal GOF Test

Shapiro Wilk Test Statistic	0.476	Shapiro Wilk GOF Test
5% Shapiro Wilk Critical Value	0.887	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.386	Lilliefors GOF Test
5% Lilliefors Critical Value	0.222	Data Not Normal at 5% Significance Level
		Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	381	95% Adjusted-CLT UCL (Chen-1995)	463
		95% Modified-t UCL (Johnson-1978)	395.6

Gamma GOF Test

A-D Test Statistic	1.752	Anderson-Darling Gamma GOF Test
5% A-D Critical Value	0.79	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.29	Kolmogrov-Smirnoff Gamma GOF Test
5% K-S Critical Value	0.226	Data Not Gamma Distributed at 5% Significance Level
		Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	0.574	k star (bias corrected MLE)	0.508
Theta hat (MLE)	344.9	Theta star (bias corrected MLE)	389.6
nu hat (MLE)	18.35	nu star (bias corrected)	16.25
MLE Mean (bias corrected)	197.8	MLE Sd (bias corrected)	277.6
		Approximate Chi Square Value (0.05)	8.135
Adjusted Level of Significance	0.0335	Adjusted Chi Square Value	7.489

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50)	395	95% Adjusted Gamma UCL (use when n<50)	429
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Lognormal GOF Test

Shapiro Wilk Test Statistic	0.84	Shapiro Wilk Lognormal GOF Test
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APPENDIX F

PEA Field Work Notice

March 28, 2016

TO: Community Members and Neighbors of Planned School, Southwest of E. Church and S. Peach Avenues, Fresno, Fresno County, CA

FROM: Fresno Unified School District (FUSD)

RE: Preliminary Environmental Assessment at Planned School Site

We would like to provide you with advance notice of an environmental assessment that will be conducted at the planned school site located on approximately 53 acres of land southwest of E. Church and S. Peach Avenues, Fresno, Fresno County, CA (map attached). This assessment is related to the requirements of the California Department of Education (CDE) regarding proposed school sites.

The assessment will be performed by a licensed contractor under the oversight of the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC). The assessment will consist of collecting surface and sub-surface soil and soil gas samples using a hand auger and/or a drill rig to assess for possible releases of chemicals that may have been used at the site. Although an assessment will be conducted, this does not mean hazardous substances are located on this property. State laws require that all proposed new school sites undergo a complete environmental review, and if necessary, a cleanup to protect students, faculty and staff who will occupy the school.

Field work will require approximately five days and is scheduled to occur beginning the week of April 11, 2016, depending upon factors such as weather conditions and contractor availability. All field work will be conducted during normal business hours. Street closures will not be required during the assessment.

The Fresno Unified School District (FUSD) will submit the results of this Preliminary Environmental Assessment (PEA) in a draft report to DTSC for review. The PEA report will include an assessment of whether hazardous materials are present and, if so, whether the materials are present in concentrations that would require some type of cleanup before implementing the project. The FUSD will hold a 30-day public review and comment period on the draft PEA report. Additionally, the FUSD will conduct a public hearing to discuss the PEA results and receive comments from the public. All comments received in this process shall be forwarded to DTSC for consideration.

The draft PEA report will be made available for review at the FUSD Facilities Management & Planning office (4600 N. Brawley Avenue, Fresno, CA) and the Mosqueda Branch Public Library (4670 E. Butler Avenue, Fresno, CA). Notice of the start of the 30-day review period, date of public hearing, and location of repositories will be published in the Fresno Bee. When the public participation process is complete, DTSC will issue a final determination with regard to the PEA.

If you have any questions concerning the upcoming assessment or other activities of the potential construction project, please contact Mr. William (Alex) Belanger, FUSD Assistant Superintendent, Facilities Management & Planning, by telephone at (559) 457-6126 or by email at william.belanger@fresnounified.org, or the DTSC Project Manager, Mr. Jose Luevano, by telephone at (916) 255-3577 or by email at jose.luevano@dtsc.ca.gov.

We will appreciate your understanding during the environmental review process.



Matthew Rodriguez
Secretary for
Environmental Protection



Department of Toxic Substances Control

Barbara A. Lee, Director
8800 Cal Center Drive
Sacramento, California 95826-3200



Edmund G. Brown Jr.
Governor

July 18, 2016

Mr. William Belanger
Assistant Superintendent
Fresno Unified School District
4600 N. Brawley Avenue
Fresno, California 93722

PRELIMINARY ENVIRONMENTAL ASSESSMENT REPORT - NO FURTHER ACTION DETERMINATION, FRESNO UNIFIED SCHOOL DISTRICT, PLANNED SOUTHEAST SCHOOL SITE, SOUTHWEST CORNER OF EAST CHURCH AVENUE AND SOUTH PEACH AVENUE, FRESNO (PROJECT CODE 104750)

Dear Mr. Belanger:

On July 14, 2016, the Fresno Unified School District (District) notified the Department of Toxic Substances Control (DTSC) that it had complied with all public review and comment requirements for the Preliminary Environmental Assessment Report (PEA Report) pursuant to Education Code section 17213.1(a)(6)(A). The District made the PEA Report available for public review and comment from June 1, 2016 through June 30, 2016, and a public hearing was held on June 15, 2016. No public comments were received regarding the PEA Report.

In addition, DTSC reviewed the revised PEA Report (AECOM Technical Services, Inc., dated July 12, 2016) received on July 14, 2016. The PEA Report was revised in response to DTSC comments on the draft version forwarded in an electronic mail dated July 7, 2016. The PEA Report presents investigation results and conclusions based on a human health risk screening evaluation for the project.

According to the PEA Report, the District is proposing to construct adjoining schools on 51.4-acres consisting of five parcels. The parcels are identified by the Fresno County Assessor's Office as Assessor Parcel Numbers (APNs): 481-090-016 (Parcel 16, approx. 1.1-acres), 481-090-018 (Parcel 18, approx. 0.8-acres), 481-090-23ST (Parcel 23ST, approx. 17.7-acres), 481-090-027 (Parcel 27, approx. 1-acre) and 481-090-028 (Parcel 28, approx. 30.8-acres) located southwest of the intersection of East Church Avenue and South Peach Avenue, Fresno, Fresno County, California (Site). The Site is bordered to the north by East Church Avenue followed by residential subdivisions; to

the east by South Peach Avenue followed by Edith B. Storey Elementary School and residential subdivisions; to the south by a mobile home park, agricultural land and rural residential property; and to the west by rural residential property followed by South Willow Avenue. The District plans to develop the Site with an elementary school and an adjoining high school. Collectively, the schools will be designed to accommodate 3250 students in 135 classrooms.

Historically, as of 1937, the Site was used as cropland, divided into two portions by an irrigation canal, with two rural residences, one on each side of a canal. The eastern house had two additional structures (possible shop and barn) located approximately 100 feet south of the house. By 1972, two additional houses were located west of the canal. By 1984, another house was located east of the canal. According to the Phase I, two Underground Storage Tanks (USTs) were located on the Site. One was a 550-gallon gasoline UST located at 5090 E. Church Avenue (Parcel 23ST, the existing school). According to the Fresno County Environmental Health Division, this UST was removed from the Site in 1993. The second on-site UST was a 500-gallon gasoline UST identified in 1985 at 5142 E. Church Avenue (Parcel 28, east of the canal). No additional information regarding this UST was found. Currently, the Site contains, from west to east, an active school campus, two houses, an irrigation canal, and fallow cropland.

The PEA included activities to investigate the Site for potential impacts from the following recognized environmental conditions:

- Arsenic and organochlorine pesticides (OCPs) in surface soils from agricultural land use;
- Lead, OCPs and polychlorinated biphenyls (PCBs) in surface soils from application of lead-based paints, termatocides and window caulking compounds on former and existing structures;
- Arsenic and OCPs in surface soils from potential pesticide mixing near an irrigation well;
- Arsenic and OCPs in surface soils from the irrigation canal from potential on-site and off-site discharges;
- PCBs in surface soils below pole mounted transformers;
- Total petroleum hydrocarbons as gasoline (TPHg), volatile organic compounds (VOCs), and polycyclic aromatic hydrocarbons (PAHs) in soil vapor from gasoline USTs;
- Arsenic, OCPs and PCBs in soil from soil stockpile near former residence; and
- Arsenic and OCPs in soils from soil stockpile on Parcel 28.

The results of the PEA indicate that elevated chlordane concentrations were identified in composite soil sample AB-0.5', consisting of samples from locations EH-1AB, EH-2AB, EH-3AB, and EH-4AB near the existing house on Parcel 16 (west of the canal). OCP

analyses were conducted on the four discrete samples (EH-1AB, EH-2AB, EH-3AB, and EH-4AB) and also on discrete surface soil sample EH-12-0.5' collected approximately 8 feet east of the house adjacent to the concrete sidewalk that extends along the eastern side of the house. In addition, step-out soil sampling was performed at four additional locations (EH-14, EH-15, EH-16, and EH-17) adjacent to the east side of the house. Two of these discrete samples (EH-2AB-0.5' and EH-3AB-0.5') contained chlordane concentrations exceeding the DTSC-recommended residential screening level of 430 micrograms per kilogram (ug/kg), but none of the step-out sample locations contained chlordane concentrations exceeding the screening level. The maximum detected chlordane concentration was 1,670 ug/kg, which is greater than the screening level. Chlordane was not detected in the composite subsurface soil sample AB-2.5', which consisted of subsurface soil samples collected at 2.5 feet bgs at the four locations around the house. Based on the analyzed soil samples, it appears that only an isolated and limited volume, less than one cubic yard, of soil adjacent to the house contains chlordane at concentrations exceeding the residential screening level. The calculated cancer risk for chlordane from this isolated location was calculated at 3.9×10^{-6} .

In addition, one of three replicate samples collected following the Integrated Sampling Methodology approach, near the former structures (Parcel 28, east of the canal) resulted in a chlordane detection of 1,100.1 ug/kg which exceeded the DTSC residential soil screening value of 430 ug/kg. However, based on the results of the two other replicate samples collected in this decision unit of 0.086 mg/kg and 0.11 mg/kg, results of OCP sample analysis from the agricultural areas associated with Parcel 28, and the estimated cancer risk for chlordane of 2.5×10^{-6} , DTSC has determined that this value represents an incremental increase over the DTSC threshold of one in one million (1×10^{-6}) risk.

The PEA Report concludes that all other data were not reported at concentrations exceeding regulatory residential screening levels or naturally occurring background levels. Of the chemicals of potential concern (COPC), only chlordane had an exposure point concentration (EPC) that exceeded, or even approached, the selected carcinogenic screening levels. The estimated excess cancer risk for each COPC was calculated by dividing the EPC by the screening level and multiplying by $1E-06$ (the cancer risk level estimated by the screening level). The total cumulative calculated excess cancer risk for all of the COPCs is 5.1×10^{-6} . Excluding the isolated and estimated limited volume associated with the detected chlordane concentration of 1,670 ug/kg, the total cumulative calculated excess cancer risk for all of the COPCs would be 1.2×10^{-6} . In addition, none of the COPCs were detected in soil samples at concentrations exceeding the selected non-cancer screening levels, indicating that no significant concern is present. The hazard index was calculated by summing the ratios of EPCs to screening levels for all of the COPCs. The calculated hazard index is 0.68, which is below the cumulative screening level of 1.0, indicating no significant cumulative concern. Based on the findings reported in the PEA, the Site has been adequately characterized with respect to the COPCs. The PEA recommends that DTSC issue a "No Further Action" decision for the Site.

Mr. William Belanger

July 18, 2016

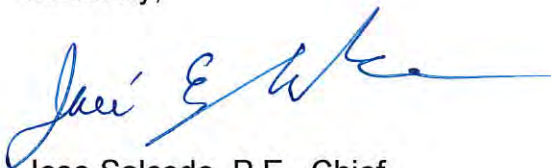
Page 4

Based on review of the PEA Report, neither a release of hazardous material nor the presence of a naturally occurring hazardous substance which would pose a threat to public health or the environment under unrestricted land use was indicated at the Site. Therefore, DTSC concurs with the conclusion of the PEA Report that further environmental investigation of the Site is not required and hereby approves the PEA Report.

Pursuant to Education Code section 17213.2, subdivision (e), if a previously unidentified release or threatened release of a hazardous material or the presence of a naturally occurring hazardous substance is discovered anytime during construction at the Site, the District shall cease all construction activities at the Site and notify DTSC. Additional assessment, investigation or cleanup may be required.

If you have any questions regarding the project, please contact Mr. Jose Luevano, DTSC Project Manager at (916) 255-3577 or via e-mail at Jose.Luevano@dtsc.ca.gov or myself at (916) 255-3732 or via e-mail at Jose.Salcedo@dtsc.ca.gov.

Sincerely,



Jose Salcedo, P.E., Chief
Northern California Schools Unit
Brownfields and Environmental Restoration Program

cc: (via e-mail)

Mr. Michael O'Neill
School Facilities Planning Division
California Department of Education
MOneill@cde.ca.gov

Ms. Karin Temple
Chief Operations Officer
Fresno Unified School District
Karin.Temple@fresnounified.org

Mr. Rick Andreasen
Project Manager
Fresno Unified School District
Rick.Andreasen@fresnounified.org

Mr. Stuart B. St. Clair, PE
Project Civil Engineer
AECOM Technical Services, Inc.
Stuart.StClair@aecom.com

Ms. Farah Esfandiari, Ph.D.
DTSC Staff Toxicologist
Human and Ecological Risk Office
Farah.Esfandiari@dtsc.ca.gov

Mr. Jose Salcedo, PE, Chief
DTSC Northern California Schools Unit
Jose.Salcedo@dtsc.ca.gov



**PRELIMINARY ENVIRONMENTAL ASSESSMENT REPORT
Planned School Site (DTSC Project Code 104792)
5 Acres at the Southwest Corner of Church Ave. and Oranewood Dr.
Fresno, California**

**Prepared for:
Fresno Unified School District**

November 9, 2018

**AECOM – Fresno, California
Project No. 60585189**



November 9, 2018

Mr. Rick Andreasen, Project Manager
Facilities Management and Planning
Fresno Unified School District
4600 North Brawley Avenue
Fresno, California 93722

**Subject: Preliminary Environmental Assessment Report
Planned School Site (DTSC Site Code 104792)
5 Acres at the Southwest Corner of Church Ave. and Oranewood Dr.
Fresno, California**

Dear Mr. Andreasen:

AECOM Technical Services, Inc. (AECOM) has prepared the enclosed report on behalf of the Fresno Unified School District (FUSD, Client) in accordance with the scope of services presented in our signed agreement dated July 24, 2018. The report presents the methods and results of a Preliminary Environmental Assessment (PEA) of the subject planned school site.

In accordance with your authorization, we are concurrently transmitting the document to the California Department of Toxic Substances Control (DTSC) for its review.

Please do not hesitate to contact us if you have any questions. We appreciate your selection of AECOM for this important project.

Sincerely,
AECOM Technical Services, Inc.

Stuart B. St. Clair, PE
Project Civil Engineer



Frank L. Gegunde, PG
Senior Geologist

Enclosure

c: see distribution list on next page

DISTRIBUTION LIST

Mr. Rick Andreasen, Project Management
Facilities Management and Planning
Fresno Unified School District
4600 North Brawley Avenue
Fresno, California 936722

Ms. Elizabeth Tisdale
Northern California Schools Unit
California Department of Toxic Substances Control
8800 Cal Center Drive
Sacramento, California 95826-3200

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2 Soil Sample Locations
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A Assessor’s Map
B Laboratory Report
C PEA Field Work Notice

EXECUTIVE SUMMARY

AECOM Technical Services, Inc. (AECOM) conducted a Preliminary Environmental Assessment (PEA) of the planned 5-acre school site (the "site") located at the southwest corner of East Church Avenue and South Orangetown Drive in the city of Fresno in Fresno County, California (Figure 1). The PEA was conducted for the Fresno Unified School District (FUSD, Client). The California Department of Toxic Substances Control (DTSC) provided regulatory oversight for the PEA.

The site was cropland from 1950 or earlier until 1998 or later. Based on the historical sources reviewed, there have never been any structures on the site.

The PEA field investigation was performed in October 2018. Soil samples were collected at several on-site locations and submitted to an environmental laboratory for analysis of various chemicals of potential concern (COPCs).

The PEA findings are summarized as follows:

- Arsenic and lead were detected in all the discrete soil samples that were analyzed (Table 3). The maximum detected arsenic and lead concentrations in discrete soil samples were 2.7 and 6.6 milligrams per kilogram (mg/kg), respectively (Table 4). By comparison, the maximum arsenic and lead concentrations in the background data set were 5.7 and 20 mg/kg, respectively (Section 7.3.2.2). Therefore, the arsenic and lead concentrations detected in the on-site discrete soil samples are within the background ranges.
- No organochlorine pesticides (OCPs) were detected in any of the soil samples analyzed.

Based on the findings summarized above, AECOM recommends that DTSC approve this PEA Report with a determination that no further action is needed before school occupancy occurs.

1.0 INTRODUCTION

This report presents the methods and results of a Preliminary Environmental Assessment (PEA) of the planned 5-acre school site (the “site”) located at the southwest corner of East Church Avenue and South Orangetown Drive in the City of Fresno in Fresno County, California (Figure 1). The PEA was conducted by AECOM Technical Services, Inc. (AECOM) for the Fresno Unified School District (FUSD, Client). The FUSD entered an Environmental Oversight Agreement (EOA) with the California Environmental Protection Agency (Cal/EPA), Department of Toxic Substances Control (DTSC). In accordance with the EOA, DTSC provided regulatory oversight for the PEA, which was conducted to fulfill the requirements of California Education Code section 17213.1.

FUSD is considering building a new school campus on the site. FUSD is anticipating the new school will open in 2019. The school will contain up to approximately 17 classrooms for 400 students at full capacity. Water and sewer services for the school will be provided by the municipal systems of the City of Fresno.

This report was prepared in accordance with DTSC guidelines, as detailed in the PEA Guidance Manual [DTSC, 2015] and supplemental written guidelines for conducting PEAs of planned K-12 school sites. Project-specific direction was provided by the DTSC project manager, Ms. Elizabeth Tisdale, in the Sacramento office. The PEA was conducted in accordance with the PEA Workplan for the site [AECOM, 2018], which was approved by DTSC in a letter to FUSD dated October 3, 2018.

This report is organized as follows:

- The Executive Summary briefly presents the PEA methods and results.
- Section 1.0 presents an introduction to the project.
- Section 2.0 presents the objective and scope of the project.
- Section 3.0 presents the site location and description.
- Section 4.0 presents background information regarding the site.
- Section 5.0 presents the environmental setting of the site.
- Section 6.0 presents the potential problem addressed by this PEA.
- Section 7.0 presents the sampling activities and results.
- Section 8.0 presents the human health screening evaluation.
- Section 9.0 presents public participation information.
- Section 10.0 presents project quality assurance/quality control (QA/QC) information.
- Section 11.0 describes health and safety plan implementation.
- Section 12.0 describes variances from the approved PEA Workplan.
- Section 13.0 presents conclusions and recommendations.
- Section 14.0 presents limitations of this report.
- Section 15.0 presents relevant references.
- Tables, figures, and appendices are presented after Section 15.0.

2.0 OBJECTIVE AND SCOPE

The objective of the PEA was to evaluate whether current or past hazardous material management practices at the site have resulted in a release of hazardous materials that poses a threat to public health or the environment. To meet this objective, the PEA included the following scope of work:

- Evaluating available information for indications of the past use, storage, disposal, or release of hazardous wastes/substances at the site.
- Preparing the PEA Workplan that summarized existing site data and presented a proposed field sampling plan, quality assurance plan, and health and safety plan.
- Evaluating through a field sampling and analysis program the nature and general extent of hazardous materials present in environmental media at the site.
- Estimating the potential threat to public health posed by hazardous materials at the site using a residential land-use scenario.
- Preparing this report summarizing the rationale, methods, and findings of the investigation.

3.0 SITE LOCATION AND DESCRIPTION

The site is located on the south side of East Church Avenue and the west side of South Oranewood Drive in the city of Fresno, Fresno County, California (Figure 1). The approximately 5-acre site consists of two parcels having Fresno County Assessor's Parcel Numbers (APNs) 481-300-34 and 481-300-35. The assessor's map is provided in Appendix A. Both parcels are owned by FUSD. Neither parcel has an assigned street address. The site occupies a portion of the northeast quarter of the southwest quarter of Section 17, Township 14 South, Range 21 East, Mount Diablo Baseline and Meridian [USGS, 1981].

The site includes approximately 5 acres of fallow cropland. No structures or paved areas are located on the site.

The site does not have an identification number assigned by the United States Environmental Protection Agency (USEPA). The DTSC EnviroStor database number assigned to the site is 60002701, and the DTSC Schools Unit project code is 104792.

Land use adjacent to the site consists of residences to the south, the existing Edith B. Storey Elementary School to the west, East Church Avenue to the north with residences beyond, and South Oranewood Drive to the east with fallow cropland and residences beyond.

4.0 BACKGROUND INFORMATION

This section presents background information for the site. Review of historical topographic maps and aerial photographs indicates that, as of 1937 (the date of the oldest aerial photograph obtained) and 1946, the site was vacant [AECOM, 2018]. In the 1950 aerial photograph, the site appears to be cropland, which continued through the 1998 aerial photograph. In the 2006 through 2016 aerial photographs, the site appears as undeveloped. No on-site structures are seen on any of the historical aerial photographs or topographic maps.

During the site reconnaissance in August 2018, AECOM observed the following:

- The entirety of the site is currently vacant with no structures or paved areas.
- There are no irrigation wells on the site.
- There are no electrical transformers on the site.
- Adjacent properties comprise a school, residences, and vacant land. No evidence of hazardous-materials impacts to the site from activities on adjacent properties was observed.

5.0 ENVIRONMENTAL SETTING

This section summarizes available information on the topography, geology, hydrology, and climatology of the site and vicinity.

5.1 TOPOGRAPHY

The site is located in the San Joaquin Valley at an elevation of about 305 feet above mean sea level (amsl) [USGS, 1981]. The topography in the vicinity of the site is relatively flat and level, sloping gently downward to the south-southwest at about 10 feet per mile.

5.2 GEOLOGY

The site lies within the Great Valley Geomorphic Province of California. The valley is approximately 400 miles long and averages 50 miles wide. The valley has been filled with a thick sequence of marine and nonmarine sediments dating from the late Jurassic to the Holocene periods. The uppermost strata of the Great Valley represent, for the most part, the alluvial, flood, and delta plains of two major rivers (Sacramento and San Joaquin Rivers) and their tributaries.

The valley deposits are derived from the Coast Ranges to the west and the Sierra Nevada to the east. Granitic and metamorphic rocks outcrop along the eastern and southeastern flanks of the valley. Marine sedimentary rocks outcrop along most of the western, southwestern, and southern flanks; and volcanic rocks and deposits outcrop along the northeastern flanks of the valley. The valley geomorphology includes dissected uplands, low alluvial plains and fans, river flood plains and channels, and overflow lands and lake bottoms.

The site is in an area classified as having surficial deposits consisting of older alluvium of Quaternary age [Page & LeBlanc, 1969]. Alluvial, lacustrine, playa, and fluvial deposits underlie the site and are described as unconsolidated and semi-consolidated. There are no rock outcrops at the site. The depth to the basement complex of consolidated rocks at the site is more than 1,000 feet below ground surface (bgs).

The site is located approximately 15 miles southwest of the nearest known ultramafic rock outcropping [DMG, 2000]. Based on this distance, naturally occurring asbestos (NOA) is not considered a significant concern for the site.

USEPA's Map of Radon Zones assigns each county in the United States to one of three zones based on radon potential, with Zone 1 having the highest potential and Zone 3 the lowest (<http://www.epa.gov/radon/zonemap.html>). Fresno County is mapped in Zone 2. Counties in Zone 2 are predicted to have average indoor radon screening levels of between 2 and 4 picoCuries per liter. The California Department of Public Health has not posted a special report on radon for Fresno County on its website (<http://www.cdph.ca.gov/HealthInfo/environhealth/Pages/RadoninCalifornia.aspx>). DTSC does not require further radon evaluation

for proposed school sites unless they are located within USEPA Zone 1 or within an area identified as significant for radon potential based on other local or regional information. The planned school will consist of raised classroom buildings with vented crawlspaces beneath the floors, which further reduces the potential for radon concern. Based on the available information summarized above, radon is not considered a concern for the site.

5.3 HYDROLOGY

Central Canal is approximately $\frac{1}{4}$ mile north of the site, and Colony Canal is approximately $\frac{1}{4}$ mile east of the site. Except for storm water retention basins, there are no other surface water bodies within several miles of the site.

The site is located within the Kings Subbasin of the San Joaquin Valley groundwater basin [DWR, 1980]. Groundwater occurs in an unconfined/semiconfined aquifer in unconsolidated alluvium [Page & LeBlanc, 1969]. Review of the groundwater elevation contour map for Spring 2018 (the most recent available data) available using the DWR online Groundwater Information Center Interactive Map Application (gis.water.ca.gov/app/gicima) indicates that the groundwater elevation beneath the site was approximately 223 feet amsl, which corresponds to a depth to groundwater of approximately 82 feet bgs. The DWR contour map indicates that the groundwater flow direction at the site was toward the west-southwest in Spring 2018. The groundwater flow direction may vary based on many factors, including regional recharge conditions and nearby groundwater extraction wells.

5.4 CLIMATOLOGY

The climate at the site is characterized by cool, moist winters and hot, dry summers. Winter low temperatures at the site are occasionally below 30° Fahrenheit, and summer high temperatures often exceed 100° Fahrenheit. Prevailing winds are typically from the northwest. The average annual rainfall is about 11 inches (www.worldclimate.com). Evaporation amounts in the region significantly exceed precipitation amounts over the course of a typical year.

6.0 POTENTIAL PROBLEM

The site was cropland from 1950 or earlier until 1998 or later. Based on the historical sources reviewed, there have never been any structures on the site.

Potential sources of hazardous materials contamination identified for the site comprise the following:

- Application of pesticides to cropland.

7.0 SAMPLING ACTIVITIES AND RESULTS

The subsections below describe the PEA field sampling activities and results. Section 7.1 provides a summary of the sampling activities. Section 7.2 describes clearance for underground utilities prior to the subsurface investigation. Section 7.3 provides details on the sampling rationale and methodology. Section 7.4 discusses the results of the PEA.

7.1 SUMMARY OF ACTIVITIES

The field sampling was performed in October 2018. Soil samples were collected from on-site areas of concern and analyzed for chemicals of potential concern (COPCs). The sample locations are shown on Figure 2. Groundwater was not sampled or analyzed for this PEA. The sampling was conducted in accordance with the PEA Workplan [AECOM, 2018]. A qualified environmental laboratory was subcontracted for analysis of collected soil samples. Laboratory analyses were conducted on discrete soil samples, as detailed on Table 1, and on composite soil samples, as detailed on Table 2. The unanalyzed portions of all discrete soil samples (including those used by the laboratory to make composite samples) were retained by the laboratory for possible followup analyses.

7.2 BORING CLEARANCE

At least 48 hours prior to commencement of subsurface investigations, Underground Services Alert (USA) was notified of the intent to conduct such investigations at the site. All proposed locations of subsurface investigation were clearly marked with white paint or surveyors flagging as required by USA. USA contacted all utility owners of record within the site vicinity and notified them of the intention to conduct subsurface investigations in proximity to buried utilities. All utility owners of record, or their designated agents, were expected to clearly mark the position of their utilities on the ground surface throughout the area designated for investigation.

7.3 SAMPLING AND ANALYSIS

The following subsections describe soil sampling and analysis performed for the PEA. Subsection 7.3.1 discusses sampling locations and rationale. A detailed sampling protocol for soil sampling is presented below in subsection 7.3.2.

7.3.1 Sampling Locations and Rationale

Soil were collected to assess the areas of concern described in Section 6.0, as described below.

Sample locations on the site comprised the following:

- Twelve surface soil sample locations addressed the former cropland area (Figure 2, Tables 1 and 2) to assess for arsenic, lead and OCP impacts. At each of these locations, a surface soil sample was collected from 0 to 6 inches bgs.

7.3.2 Discrete Soil Sample Collection Procedures

Surface soil samples were collected by scraping surface soil directly into a glass jar. The jar was closed (taking care to prevent soil from remaining in the lid threads prior to being closed to prevent potential contaminant migration to or from the sample), labeled for chemical analysis, placed in a ziplock bag, and stored in a chilled cooler.

Soil samples were identified with the sample location name followed by the bottom depth of the depth interval sampled (e.g., C-1A-0.5'). For discrete samples that were to be composited with other samples, the sample was assigned a letter designation in common with the other samples to be included in the composite sample (e.g., C-1A-0.5', C-2A-0.5', and C-3A-0.5').

7.3.2.1 Decontamination

No equipment decontamination was needed, because no non-disposable equipment that came into contact with potentially contaminated soil was used.

7.3.2.2 Collection of Background Soil Samples

No background soil samples were collected for the PEA. As set forth in the PEA Workplan the analytical results for Title 22 metals in on-site soil samples will be compared to a background data set from a nearby previous school-site PEA project. The previous PEA was for a school site known as the David Cook Center Portable School (DTSC Site Code 104532) located near Fowler and Los Altos Avenues in Clovis, California, which is approximately nine miles north of the current site in a similar geologic/soil setting as the current Site. The background data set from the David Cook Center Portable School was provided in the PEA Workplan [AECOM, 2018]. The maximum arsenic and lead concentrations in the background data set are 5.7 and 20 milligrams per kilogram (mg/kg), respectively.

7.3.3 Field Equipment Rinseate Blank Collection Procedures

No field equipment rinseate blank water samples were collected because no sampling equipment requiring decontamination was used.

7.3.4 Field Documentation and Sample Handling Procedures

During field activities, field reports were used to document where, when, how, and from whom any vital project information was obtained. Field report entries were complete and accurate enough to permit reconstruction of field activities. Each page was dated and the time of entry noted. All entries were legible, written in black ink, and signed by the individual making the entries. If an error was made, corrections were made by crossing a line through the error and entering the correct information. Corrections were dated and initialed. No entries were obliterated or rendered unreadable. At a minimum, the following items were recorded in the field reports:

- Site name and address.

- Recorder's name.
- Team members and their responsibilities.
- Time of site arrival/entry on site and time of site departure.
- Other personnel on-site.
- A summary of any on-site meetings.
- Health and safety monitoring data.
- Deviations from sampling plans and site safety plans.
- Changes in personnel and responsibilities as well as reasons for the changes.
- Levels of safety protection.
- Calibration readings for any equipment used and equipment model and serial number.

COC records were used to document sample collection and shipment to the laboratory for analysis. All sample shipments for analyses were accompanied by a COC record. The COC record identified the contents of each shipment and maintained the custodial integrity of the samples. Generally, a sample is considered to be in someone's custody if it is either in someone's physical possession, in their view, locked up, or kept in a secured area that is restricted to authorized personnel. Until receipt by the laboratory, the custody of the samples was the responsibility of the sample collector.

Soil sample containers consisted of laboratory-provided glass jars, stainless steel sleeves (typically 1.5-inch diameter by 6-inches long) sealed with Teflon film and plastic endcaps, or laboratory-provided water sample containers for equipment blank samples. To identify and manage samples obtained in the field, a sample label was affixed to each sample container. The sample labels included the following information:

- Site name.
- Boring number.
- Sample name.
- Sampler's initials.
- Date and time of collection.

Following collection and labeling, samples were immediately placed in a chilled, insulated container for temporary storage. The following protocol was followed for sample packaging:

- Sample containers were placed in clear, plastic, leak-resistant bags prior to placement in the ice chest.
- Ice was placed in leak-resistant plastic bags and included in the insulated container to keep samples at a chilled temperature during transport to the analytical laboratory. The drain plug of the insulated container was secured with tape to prevent melting ice from leaking out of the insulated container.

- The COC record was placed in a water-resistant plastic bag and taped on the inside of the lid of the insulated container.

A field report was used to record the following information during the collection of each sample:

- Sample identification number.
- Sample location and description.
- Site sketch showing sample location and measured distances.
- Sampler's name(s).
- Date and time of sample collection.
- Designation of sample as composite or grab.
- Type of sample (i.e., matrix).
- Type of preservation.
- Type of sampling equipment used.
- Field observations and details important to analysis or integrity of samples (e.g., heavy rains, odors, colors, etc.).
- Instrument readings (e.g., photo-ionization detector, etc.).
- COC record numbers.
- Transport arrangements (courier delivery, lab pickup, etc.).
- Recipient laboratory(ies).

7.3.5 Analytical Procedures

Analytical services for soil samples were provided by Alpha Scientific Corporation of Cerritos, California, which is accredited under the California Department of Health Services, Environmental Laboratory Accreditation Program (ELAP). The laboratory was instructed to report estimated values, i.e., between the method detection limit and reporting limit, with a "J" qualifier. The laboratory prepared and analyzed duplicate samples at a minimum rate of 10-percent of the primary analyses. The laboratory was instructed to archive all submitted samples and remaining portions thereof for possible later analysis. Analytical methods used are listed on Tables 1 through 3.

7.4 DISCUSSION OF RESULTS

The laboratory analytical results for discrete and composite soil samples are summarized in Table 3. A summary of the chemicals detected in soil, including the maximum concentrations detected on-site, is presented in Table 4. Appendix B contains the laboratory report.

Arsenic and lead were detected in all of the discrete soil samples that were analyzed (Table 3). The maximum detected arsenic and lead concentrations in discrete soil samples were 2.7 and 6.6

mg/kg, respectively (Table 4). By comparison, the maximum arsenic and lead concentrations in the background data set were 5.7 and 20 mg/kg, respectively (Section 7.3.2.2). Therefore, the arsenic and lead concentrations detected in the on-site discrete soil samples are within the background ranges.

No OCPs were detected in any of the composite soil samples that were analyzed (Table 3).

8.0 HUMAN HEALTH SCREENING EVALUATION

A PEA screening evaluation for human health effects consists of three steps:

- 1) Identifying potentially complete exposure pathways based on the conceptual site model (CSM);
- 2) Identifying chemicals of potential concern (COPCs); and
- 3) Estimating COPC exposures or doses and comparing the dose to health-based levels developed by USEPA and Cal/EPA.

Exposure to chemicals can only occur if there is a complete pathway by which chemicals in on-site soil, water, or air can be contacted by humans. Therefore, the evaluation of exposure pathways is the first step in the human health screening evaluation. Potential dose and risk are then calculated based on an evaluation of potential exposure concentrations of the COPCs, the estimated chronic daily intake or dose for the hypothetical residential adult and child receptors, and the estimated health risks based on the toxicity values of each COPC.

The CSM, included as Figure 3, provides a description of the links between potential contaminant sources and release mechanisms at the site and exposure point media (soil, groundwater, air, etc.), potential exposure routes (ingestion, inhalation, dermal contact, etc.), and potential receptors. The receptors identified in the CSM include future construction workers and school students and staff. However, in accordance with the PEA Guidance Manual [DTSC< 2015], a residential land-use scenario is used for evaluating potential health effects to receptors. The residential land-use scenario is used in the screening evaluation because it is intended to provide a more stringent or health-conservative preliminary evaluation of potential health risks for any human receptors.

The chemicals detected in soil at the site comprised arsenic and lead, both of which are naturally occurring metals. The maximum detected concentration for each of these metals was below the respective maximum concentration in the background data set (Section 7.4). No OCPs were detected in the soil samples. Therefore, the PEA soil sampling identified no COPCs for the site. Based on this finding, the human health screening evaluation did not proceed further.

9.0 PUBLIC PARTICIPATION

Public notification of PEA activities was performed in accordance with California Education Code requirements and the guidance of DTSC.

9.1 PEA WORK NOTICE

Prior to conducting the field sampling for the PEA, a work notice, notifying residents/businesses within view of the site of the upcoming sampling activities, was mailed on October 8, 2018, pursuant to the requirements of California Education Code Section 17210.1(b). A copy of the PEA work notice is included in Appendix C.

9.2 PUBLIC COMMENT PERIOD AND PUBLIC HEARING

FUSD will provide a 30-day public comment period for the PEA Report from December 17, 2018, through January 21, 2019, and will hold a public hearing on January 16, 2019, pursuant to the requirements of California Education Code Section 17213.1(a). Notice of the public comment period will be published in a general circulation newspaper. During the public comment period, the PEA Report will be available for public review and comment at the following addresses:

Fresno Unified School District
4600 N. Brawley Avenue
Fresno, California 93722

Department of Toxic Substances Control
8800 Cal Center Drive
Sacramento, California 95826

Mosqueda Branch Public Library
4670 E. Butler Avenue
Fresno, California 93702

The PEA Report also will be available on the Internet at the DTSC “EnviroStor” database – see “Activities” tab at the following Internet address:

http://www.envirostor.dtsc.ca.gov/public/profile_report.asp?global_id=60002701

Anyone interested in reviewing the PEA Report, or providing comments, is instructed to contact Ms. Elizabeth Tisdale, DTSC Project Manager, by telephone at (916) 255-6666 or by electronic mail at elizabeth.tisdale@dtsc.ca.gov, or Mr. William (Alex) Belanger, FUSD Assistant Superintendent, Facilities Management & Planning, by telephone at (559) 457-6126 or by electronic mail at william.belanger@fresnounified.org.

10.0 QA/QC PROGRAM

The QA/QC Program was implemented in accordance with the procedures set forth in Section 7.3 of the PEA Workplan.

Field quality control samples included laboratory duplicate samples. The data for these field quality control samples were reviewed, along with other laboratory quality control results.

Analytical results for duplicate samples were generally within the 50-percent relative-percent-difference (RPD) criterion set forth in the PEA Workplan, with a few exceptions that are likely due to small-scale variations in field concentrations rather than lack of precision in the sampling and analytical process.

Analytes were not detected in any of the laboratory method blank samples. Percent recoveries for surrogate compounds and for laboratory control spike (LCS) and matrix spike/matrix spike duplicate (MS/MSD) samples were generally within the laboratory's acceptance limits.

Overall, the data are considered useable for decision-making purposes.

11.0 HEALTH AND SAFETY

During the PEA field activities, the site-specific Safe Work Plan (SWP) included in the PEA Workplan was followed to provide for on-site worker health and safety. AECOM field personnel reviewed the SWP prior to commencing field work. During field activities, appropriate “Level D” personal protective equipment was worn by all personnel. No conditions were encountered that required an upgrade above “Level D” personal protective equipment. No health and safety incidents or emergency actions occurred during the field program.

12.0 VARIANCES TO THE WORKPLAN

No variances to the PEA Workplan were required.

13.0 CONCLUSIONS AND RECOMMENDATIONS

The subsections below present the conclusions and recommendations for this PEA.

13.1 SUMMARY AND CONCLUSIONS

The 5-acre site was cropland from 1950 or earlier until 1998 or later. Based on the historical sources reviewed, there have never been any structures on the site.

The PEA field investigation was performed in October 2018. Soil samples were collected at several on-site locations and submitted to an environmental laboratory for analysis of various COPCs.

The PEA findings are summarized as follows:

- Arsenic and lead were detected in all of the discrete soil samples that were analyzed (Table 3). The maximum detected arsenic and lead concentrations in discrete soil samples were 2.7 and 6.6 mg/kg, respectively (Table 4). By comparison, the maximum arsenic and lead concentrations in the background data set were 5.7 and 20 mg/kg, respectively (Section 7.3.2.2). Therefore, the arsenic and lead concentrations detected in the on-site discrete soil samples are within the background ranges.
- No OCPs were detected in any of the soil samples that were analyzed.

13.2 RECOMMENDATIONS

Based on the findings summarized above, AECOM recommends that DTSC approve this PEA Report with a determination that no further action is needed before school occupancy occurs.

14.0 LIMITATIONS

This report was prepared in accordance with the scope of services set forth in a written agreement signed by Client and AECOM. No other services beyond those explicitly stated should be inferred or are implied. This report was prepared by AECOM for Client in a manner consistent with the level of care and skill ordinarily exercised by professional engineers, geologists, and environmental scientists in the geographic area of the site at the time AECOM's services were provided. AECOM provides no other warranties, either express or implied, concerning the contents of this report, which was prepared under the technical direction of the AECOM staff whose signatures appear on the cover letter included with this report. This report is intended for use in its entirety. No excerpts may be taken to be representative of the findings of this assessment.

The conclusions presented in this report are professional opinions based solely on AECOM's review of available historical information, observations of the site, review of lithologic/chemical data from borings drilled at the site, and review of other readily available information, as referenced in this report. The conclusions presented herein are intended exclusively for the objective stated herein, at the site indicated, and for the project indicated. Subsurface investigations inherently involve some measure of uncertainty due to the impossibility of fully characterizing the entire subsurface volume beneath a site. Analytical results from this PEA are believed to be representative of the concentrations of those chemicals selected for analysis at the locations and depths from which the samples were collected. There may be other chemicals present in the samples that were not detectable using the selected analytical methods. In addition, these analytical results may not be representative of conditions at other locations and depths at the site. Conditions may change with the passage of time.

This report is intended for use solely by Client. The scope of services performed during this investigation may not be appropriate for other users, and any use or re-use of this document, or the findings, conclusions, or recommendations presented herein, is at the sole risk of said users.

Opinions and recommendations presented in this report apply to site conditions and features as they existed at the time of AECOM's site visits. They do not necessarily apply to conditions or features of which AECOM is unaware and has not had the opportunity to evaluate.

15.0 REFERENCES

- AECOM, 2018. Preliminary Environmental Assessment Workplan, Planned School Site, 5 Acres at the Southwest Corner of Church Ave. and Oranewood Dr., Fresno, California. September 17, 2018.
- California Department of Conservation, Division of Mines and Geology (DMG), 2000. A General Location Guide for Ultramafic Rocks in California – Areas More Likely to Contain Naturally Occurring Asbestos. August 2000.
- DTSC, 2008. Interim Guidance for Sampling Agricultural Properties (Third Revision). August 7, 2008.
- DTSC, 2015. Preliminary Endangerment Assessment Guidance Manual. January 1994, revised October 2015.
- DTSC, 2018. Human Health Risk Assessment Note Number 3, Human and Ecological Risk Office (HERO), June.
- California Resources Agency, Department of Water Resources (DWR), 1980. Ground Water Basins in California, Bulletin 118-80. January 1980.
- Page, R.W., & LeBlanc, R.A., 1969. Geology, Hydrology and Water Quality in the Fresno Area, California, U.S. Geological Survey Open-File Report.
- United States Geologic Survey (USGS), 1981. “Malaga, California” 7.5-minute series topographic quadrangle map.

TABLE 1
ANALYSES ON DISCRETE SOIL SAMPLES
Planned Phoenix Secondary School Site
Southwest of Church Ave. and Oranewood Dr.
Fresno, CA
Page 1 of 1

Sample Location	Sample Depth	Environmental Concern	Arsenic (USEPA 6010B)	Lead (USEPA 6010B)	Laboratory Duplicate
C-1A	0 - 0.5'	Cropland agricultural chemical applications	X	X	X
C-5B	0 - 0.5'	Cropland agricultural chemical applications	X	X	
C-9C	0 - 0.5'	Cropland agricultural chemical applications	X	X	
C-10D	0 - 0.5'	Cropland agricultural chemical applications	X	X	

NOTES:

An "X" indicates that the sample was analyzed for that chemical group.

USEPA = U.S. Environmental Protection Agency

TABLE 2
ANALYSES ON COMPOSITE SOIL SAMPLES
Planned Phoenix Secondary School Site
Southwest of Church Ave. and Oranewood Dr.
Fresno, CA
Page 1 of 1

Composite Sample Name	Discrete Samples Included	Environmental Concern	OCPs (USEPA 8081A)	Laboratory Duplicate
C-A-0.5'	C-1A-0.5' C-2A-0.5' C-3A-0.5'	Cropland agricultural chemical applications Cropland agricultural chemical applications Cropland agricultural chemical applications	X	X
C-B-0.5'	C-4B-0.5' C-5B-0.5' C-6B-0.5'	Cropland agricultural chemical applications Cropland agricultural chemical applications Cropland agricultural chemical applications	X	
C-C-0.5'	C-7C-0.5' C-8C-0.5' C-9C-0.5'	Cropland agricultural chemical applications Cropland agricultural chemical applications Cropland agricultural chemical applications	X	
C-D-0.5'	C-10D-0.5' C-11D-0.5' C-12D-0.5'	Cropland agricultural chemical applications Cropland agricultural chemical applications Cropland agricultural chemical applications	X	

NOTES:

An "X" indicates that the sample was analyzed for that chemical group.

USEPA = U.S. Environmental Protection Agency

OCPs = organochlorine pesticides

TABLE 3
SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
Planned Phoenix Secondary School Site
Southwest of Church Ave. and Orangetown Dr.
Fresno, CA
Page 1 of 1

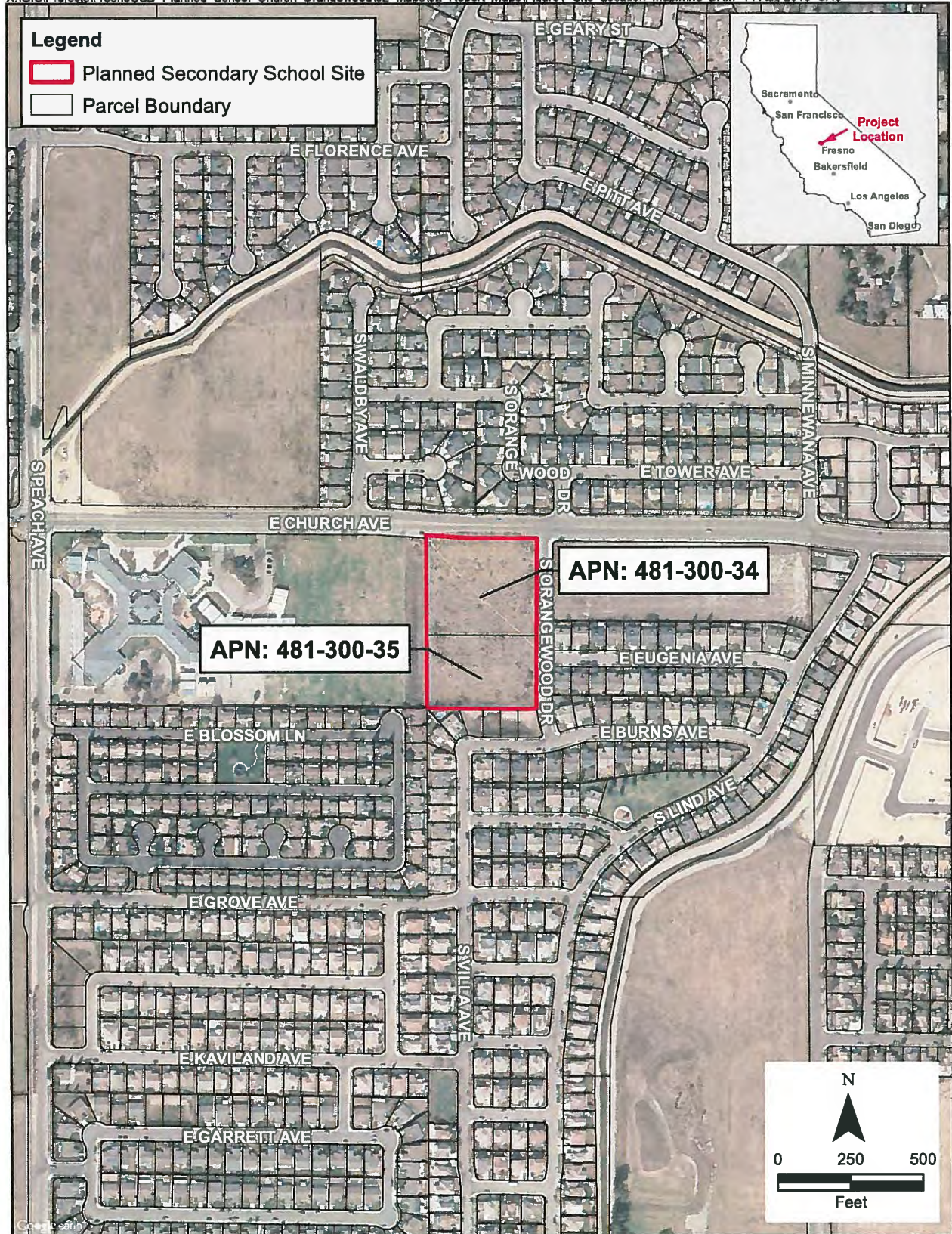
Sample Location:	C-1A	C-1A	C-5B	C-9C	C-10D	C-1A/2A/3A	C-1A/2A/3A	C-4B/5B/6B	C-7C/8C/9C	C-10D/11D/12D
Sample Type:	Discrete	Discrete	Discrete	Discrete	Discrete	Composite	Composite	Composite	Composite	Composite
Sample ID:	C-1A-0.5'	C-1A-0.5' DUP	C-5B-0.5'	C-9C-0.5'	C-10D-0.5'	C-A-0.5'	C-A-0.5' DUP	C-B-0.5'	C-C-0.5'	C-D-0.5'
Sample Date:	10/23/2018	10/23/2018	10/23/2018	10/23/2018	10/23/2018	10/23/2018	10/23/2018	10/23/2018	10/23/2018	10/23/2018
Sample Depth:	0.5'	0.5'	0.5'	0.5'	0.5'	0.5'	0.5'	0.5'	0.5'	0.5'
ANALYTE	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Arsenic		2.4	2.3	2.3	2.2					
Lead		4.2	4.7	6.6	4.1					
All OCPs						ND	ND	ND	ND	ND

NOTES:
 Only analytes detected in at least one sample are listed. See laboratory report in appendix for full list of analytes.
 A blank cell indicates that the sample was not analyzed for that analyte.
 mg/kg = milligrams per kilogram
 DUP = laboratory duplicate
 ND = not detected at or above the laboratory practical quantitation limit
 OCPs = organochlorine pesticides

TABLE 4
SUMMARY OF CHEMICALS DETECTED IN SOIL
 Planned Phoenix Secondary School Site
 Southwest of Church Ave. and Orangewood Dr.
 Fresno, CA
 Page 1 of 1

Chemical Detected On-Site	Site Maximum Detected Concentration (mg/kg)	Maximum Background Concentration* (mg/kg)	Included as COPC?	Rationale for Not Including as COPC
<i>Naturally Occurring Metals</i>				
arsenic	2.7	5.7	No	The on-site maximum concentration is less than the maximum background concentration.
lead	6.6	20	No	The on-site maximum concentration is less than the maximum background concentration.

NOTES:
 * Based on background soil concentrations reported for a nearby school site with a similar geologic/soil setting (David Cook Center Portable School, DTSC Site Code 104532).
 COPC = chemical of potential concern
 mg/kg = milligrams per kilogram



Aerial Photo: February 2018

Site Location Map

Planned Phoenix Secondary School Site
Southwest of Church Ave. & Orangewood Drive
Fresno, CA



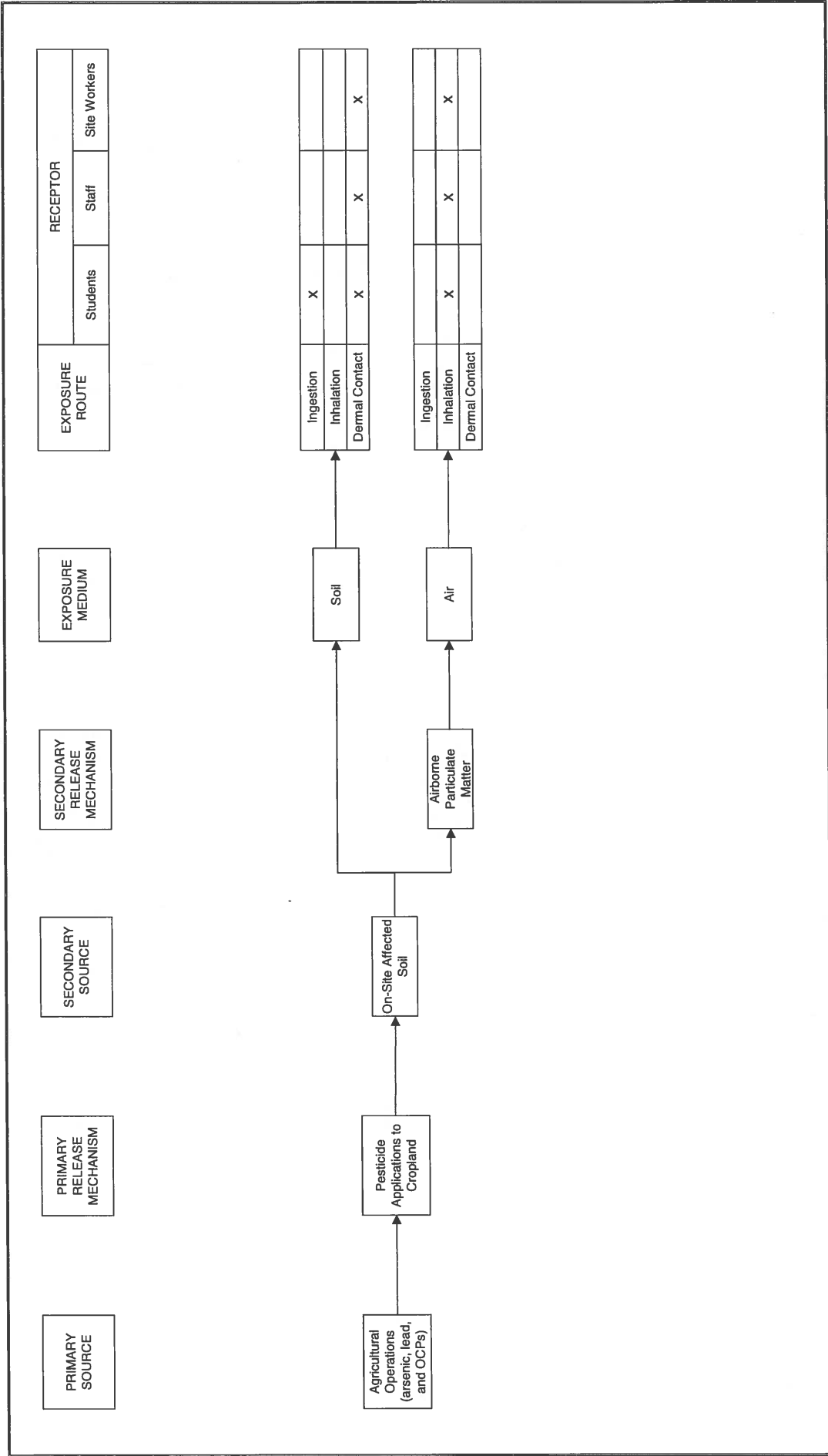
Figure 1



Aerial Photo: February 2018

Soil Sample Locations

Planned Phoenix Secondary School Site
Southwest of Church Ave. & Orangewood Drive
Fresno, CA



Conceptual Site Model
 Planned Phoenix Secondary School Site
 Southwest of Church Ave. and Orangewood Dr., Fresno, CA
 Figure 3

APPENDIX A

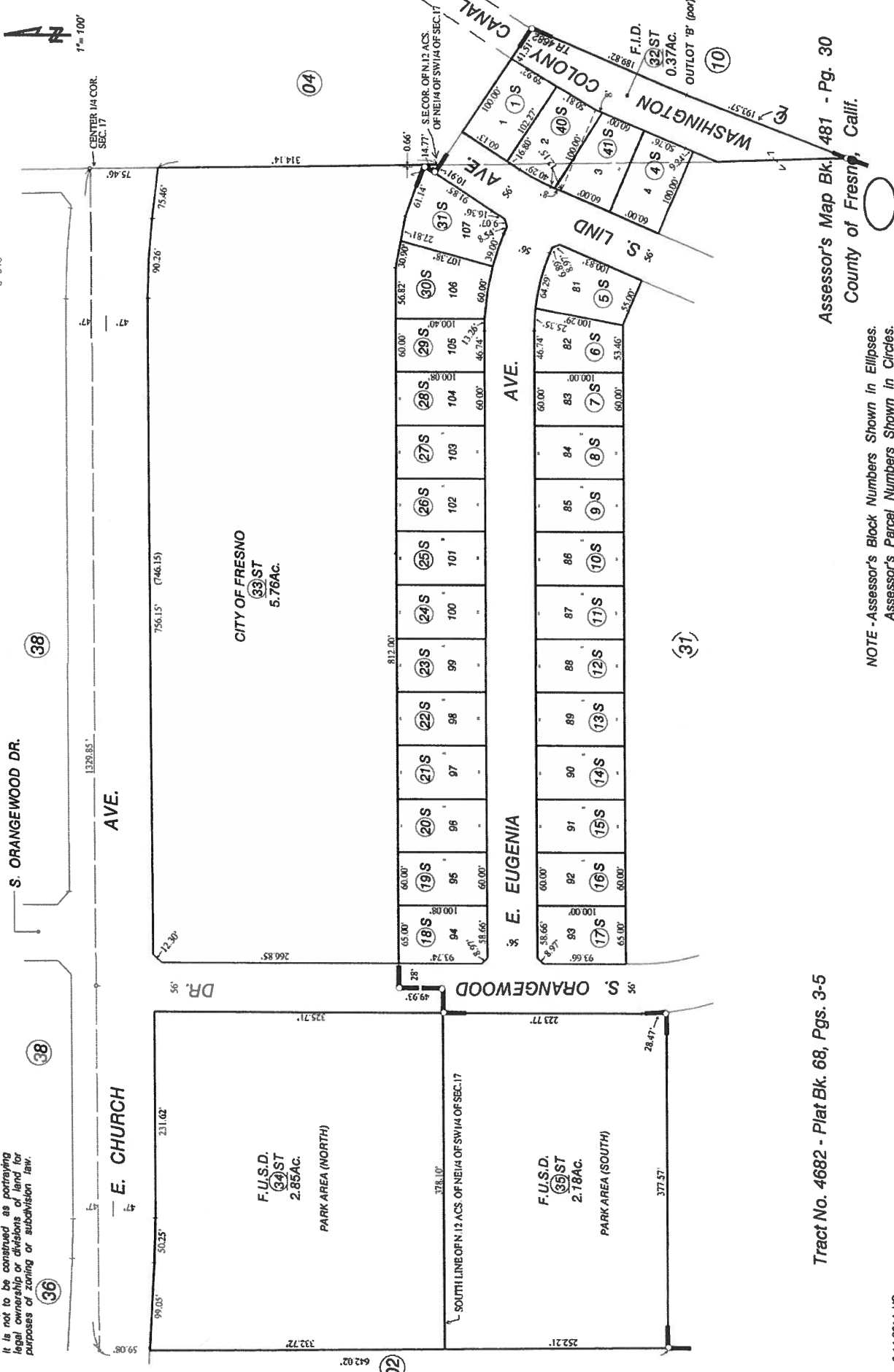
Assessor's Map

SUBDIVIDED LAND IN POR. SEC. 17, T.14 S., R.21 E., M.D.B.&M.

Tax Rate Area
5-423
5-543

481-30

... NOTE ...
This map is for Assessment purposes only.
It is not to be construed as portraying
legal ownership or divisions of land for
purposes of zoning or subdivision law.



Tract No. 4682 - Plat Bk. 68, Pgs. 3-5

Assessor's Map Bk. 481 - Pg. 30
County of Fresno, Calif.

NOTE - Assessor's Block Numbers Shown in Ellipses.
Assessor's Parcel Numbers Shown in Circles.

APPENDIX B

Laboratory Report



Alpha Scientific Corporation
Environmental Laboratories

10-30-2018

Mr. Stuart St. Clair
AECOM
1360 E. Spruce Ave., Suite 101
Fresno, CA 93720

Project: 60585189.2
Project Site: Planned Church-Orangewood School Site
Sample Date: 10-23-2018
Lab Job No.: UR810071

Dear Mr. St. Clair:

Enclosed please find the analytical report for the sample(s) received by Alpha Scientific Corporation on 10-24-2018 and analyzed for the following analytes:

EPA 6010B (As & Pb)
EPA 8081A (Organochlorine Pesticides)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

Alpha Scientific Corporation is a CA ELAP certified laboratory (Certificate Number 3007). Thank you for giving us the opportunity to serve you. Please feel free to call me at (562) 809-8880 if our laboratory can be of further service to you.

Sincerely,

Roger Wang, Ph. D.
Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.



Alpha Scientific Corporation

Environmental Laboratories

Client: AECOM
 Project: 60585189.2
 Project Site: Planned Church-Orangewood School Site
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: AJ25-PS1

Lab Job No.: UR810071
 Date Sampled: 10-23-2018
 Date Received: 10-24-2018
 Date Extracted: 10-24-2018
 Date Analyzed: 10-25-2018
 Date Reported: 10-30-2018

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (ppb)

LAB SAMPLE I.D.	MB	UR810071- 1,2,3	UR810071- 1,2,3 Dup	UR810071- 4,5,6	UR810071- 7,8,9	UR810071- 10,11,12	
CLIENT SAMPLE I.D.		C-1A-0.5' C-2A-0.5' C-3A-0.5'	C-1A-0.5' C-2A-0.5' C-3A-0.5'	C-4B-0.5' C-5B-0.5' C-6B-0.5'	C-7C-0.5' C-8C-0.5' C-9C-0.5'	C-10D-0.5' C-11D-0.5' C-12D-0.5'	
DILUTION FACTOR	1	1	1	1	1	1	
COMPOUND	MDL	PQL					
Alpha-BHC	3	5	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	3	5	ND	ND	ND	ND	ND
Heptachlor	3	5	ND	ND	ND	ND	ND
Aldrin	3	5	ND	ND	ND	ND	ND
Beta-BHC	3	5	ND	ND	ND	ND	ND
Delta-BHC	3	5	ND	ND	ND	ND	ND
Heptachlor Epoxide	3	5	ND	ND	ND	ND	ND
Endosulfan I	3	5	ND	ND	ND	ND	ND
4,4'-DDE	3	5	ND	ND	ND	ND	ND
Dieldrin	3	5	ND	ND	ND	ND	ND
Endrin	3	5	ND	ND	ND	ND	ND
4,4'-DDD	3	5	ND	ND	ND	ND	ND
Endosulfan II	3	5	ND	ND	ND	ND	ND
4,4'-DDT	3	5	ND	ND	ND	ND	ND
Endrin Aldehyde	3	5	ND	ND	ND	ND	ND
Endosulfan Sulfate	3	5	ND	ND	ND	ND	ND
Methoxychlor	3	5	ND	ND	ND	ND	ND
Alpha-Chlordane	3	5	ND	ND	ND	ND	ND
Gamma-Chlordane	3	5	ND	ND	ND	ND	ND
Technical Chlordane	20	40	ND	ND	ND	ND	ND
Toxaphene	100	200	ND	ND	ND	ND	ND
Endrin Ketone	25	50	ND	ND	ND	ND	ND
Hexachlorobenzene(HCB)	100	200	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	250	500	ND	ND	ND	ND	ND
SURROGATE	Accept Limit%	%RC	%RC	%RC	%RC	%RC	%RC
Surrogate Standard	60-140	123	102	105	116	121	116

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
 ND=Not Detected (below DF × MDL); J=result is between MDL and PQL;
 * = Obtained from a higher dilution analysis. %RC=Percent Recovery.



Alpha Scientific Corporation
Environmental Laboratories

Client: AECOM
Project: 60585189.2
Project Site: Planned Church-Orangewood School Site
Matrix: Soil
Extraction Method: EPA 3050B
Batch No.: 1025-MS1

Lab Job No.: UR810071
Date Sampled: 10-23-2018
Date Received: 10-24-2018
Date Extracted: 10-25-2018
Date Analyzed: 10-25-2018
Date Reported: 10-30-2018

EPA 6010B (Lead, TTLC)
Reporting Units: mg/kg (ppm)

Sample I.D.	Lab ID	Lead, TTLC	MDL	PQL
Method Blank		ND	1	2
C-1A-0.5'	UR810071-1	4.2	1	2
C-1A-0.5'	UR810071-1 Dup	4.6	1	2
C-5B-0.5'	UR810071-5	4.7	1	2
C-9C-0.5'	UR810071-9	6.6	1	2
C-10D-0.5'	UR810071-10	4.1	1	2

MDL: Method Detection Limit
PQL: Practical Quantitation Limit.
ND: Not Detected (below MDL).



Alpha Scientific Corporation
Environmental Laboratories

Client: AECOM
Project: 60585189.2
Project Site: Planned Church-Orangewood School Site
Matrix: Soil
Extraction Method: EPA 3050B
Batch No.: 1025-MS1

Lab Job No.: UR810071
Date Sampled: 10-23-2018
Date Received: 10-24-2018
Date Extracted: 10-25-2018
Date Analyzed: 10-25-2018
Date Reported: 10-30-2018

EPA 6010B (As, TTLC)
Reporting Unit: mg/kg (ppm)

Sample I.D.	Lab ID	Arsenic, TTLC	MDL	PQL
Method Blank		ND	0.5	1
C-1A-0.5'	UR810071-1	2.4	0.5	1
C-1A-0.5'	UR810071-1 Dup	2.7	0.5	1
C-5B-0.5'	UR810071-5	2.3	0.5	1
C-9C-0.5'	UR810071-9	2.3	0.5	1
C-10D-0.5'	UR810071-10	2.2	0.5	1

MDL: Method Detection Limit
PQL: Practical Quantitation Limit.
ND: Not Detected (below MDL).



Alpha Scientific Corporation
Environmental Laboratories

10-30-2018

**EPA 8081A (Pesticides)
Batch QA/QC Report**

Client: AECOM
Project: 60585189.2
Matrix: Soil
Batch No: AJ25-PS1

Lab Job No.: UR810071
Lab Sample I.D.: DE810072-1
Date Analyzed: 10-25-2018

I. MS/MSD Report
Unit: ppb

Analyte	Method Blank	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Gamma-BHC	ND	20	17.1	16.6	85.5	83.0	3.0	30	46-127
Heptachlor	ND	20	19.4	19.9	97.0	99.5	2.5	30	31-134
Aldrin	ND	20	20.3	22.2	101.5	111.0	8.9	30	36-132
Dieldrin	ND	20	17.5	18.9	87.5	94.5	7.7	30	21-134
Endrin	ND	20	15.3	18.1	76.5	90.5	16.8	30	42-139
4,4'-DDT	ND	20	15.8	16.7	79.0	83.5	5.5	30	21-134

II. LCS Result
Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	Accept. Limit
Gamma-BHC	17.0	20	85.0	80-120
Heptachlor	17.7	20	88.5	80-120
Aldrin	16.2	20	81.0	80-120
Dieldrin	20.7	20	103.5	80-120
Endrin	17.1	20	85.5	80-120
4,4'-DDT	16.6	20	83.0	80-120

ND: Not Detected.



Alpha Scientific Corporation
Environmental Laboratories

10-30-2018

**EPA 6010B (As & Pb)
Batch QA/QC Report**

Client: AECOM
Project: 60585189.2
Matrix: Soil
Batch No.: 1025-MS1

Lab Job No.: UR810071
Lab Sample ID: A810074-1
Date Analyzed: 10-25-2018

**I. MS/MSD Report
Unit: ppm**

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Arsenic (As)	8.741	10	18.60	18.07	99.3	96.4	2.9	30	70-130
Lead (Pb)	1.866	10	11.08	10.99	93.4	92.6	0.8	30	70-130

**II. LCS Result
Unit: ppm**

Analyte	EPA Method	LCS Value	True Value	Rec.%	Accept. Limit
Arsenic (As)	6010B	9.666	10.0	96.7	80-120
Lead (Pb)	6010B	10.44	10.0	104.4	80-120

ND:Not Detected (at the specified limit).



Alpha Scientific Corporation

Environmental Laboratories

MultiLevel Quality Control Sign Off (Soil Sample)

Sample Preparation		Extraction/DigestionPreparation according to SOP# ASC-SOP.3550B-001			
HT met: HT Date(s): <u>11-06-2018</u> Ext. Date: <u>10-24-2018</u>	Yes: T	No:	NA:		
Sample container Labels checked at all stages	Yes: T	No:	NA:		
Sample preservation checked	Yes: T	No:	NA:		
Sample preservation acceptable:	Yes: T	No:	NA:		
Sufficient sample provided for method QC:	Yes: T	No:	NA:		
Proper number of QC samples performed per method:	Yes: T	No:	NA:		
Specific QC requirements of client performed:	Yes: T	No:	NA:		
Were soil samples corrected for % moisture:	Yes	No: T	NA:		
Proper number of blanks performed:	Yes: T	No:	NA:		
Brought to final volume and labeled properly:	Yes: T	No:	NA:		
Entered information into proper lab notebooks:	Yes: T	No:	NA:		
Deviations to any of the above items:	Yes:	No: T	NA:		
Reasons/explanation for deviation & supervisors initial:					
Name of technician(s) or chemist/Date GG /10-26-2018					
Name of reviewer/Date Sue /10-29-2018					
Comments:					
Instrumentation Analyses		Samples analyzed according to SOP# ASC-SOP.8081A-004			
Holding time met for all analyses:	Yes: T	No:	NA:		
Calibrations include all pertinent analytes:	Yes: T	No:	NA:		
Initial calibration in control:	Yes: T	No:	NA:		
Second source calibrations in control:	Yes: T	No:	NA:		
LCS/LCSD) passes:	Yes: T	No:	NA:		
Method blank/calibration blank passes:	Yes: T	No:	NA:		
Matrix Duplicate and MS/MSD passes:	Yes: T	No:	NA:		
Surrogate passes:	Yes: T	No:	NA:		
Results transcribed correctly from raw data:	Yes: T	No:	NA:		
Do the dilutions agree?	Yes: T	No:	NA:		
Were soil samples corrected for % moisture:	Yes:	No: T	NA:		
Manual integration 2nd level review:	Yes:	No:	NA: T		
Deviations to any of the above items:	Yes:	No: T	NA:		
Reasons/explanation for deviation & supervisors initial:					
Name of analyst(s)/Date: GG /10-26-2018					
Name of Data entry/Date: GG /10-26-2018					
Name of reviewer/Date: Sue/ 10-29-2018					
Comments:					



Alpha Scientific Corporation

Environmental Laboratories

MultiLevel Quality Control Sign Off (Soil Sample)

Sample Preparation		Extraction/DigestionPreparation according to SOP# ASC-SOP.3050B-001			
HT met: HT Date(s): <u>04-20-2019</u> Ext. Date: <u>10-25-2018</u>	Yes: T	No:	NA:		
Sample container Labels checked at all stages	Yes: T	No:	NA:		
Sample preservation checked	Yes: T	No:	NA:		
Sample preservation acceptable:	Yes: T	No:	NA:		
Sufficient sample provided for method QC:	Yes: T	No:	NA:		
Proper number of QC samples performed per method:	Yes: T	No:	NA:		
Specific QC requirements of client performed:	Yes T	No:	NA:		
Were soil samples corrected for % moisture:	Yes	No: T	NA:		
Proper number of blanks performed:	Yes: T	No:	NA:		
Brought to final volume and labeled properly:	Yes: T	No:	NA:		
Entered information into proper lab notebooks:	Yes: T	No:	NA:		
Deviations to any of the above items:	Yes:	No: T	NA:		
Reasons/explanation for deviation & supervisors initial:					
Name of technician(s) or chemist/Date GG /10-26-2018					
Name of reviewer/Date Sue /10-29-2018					
Comments:					
Instrumentation Analyses		Samples analyzed according to SOP# ASC-SOP.6010B-003			
Holding time met for all analyses:	Yes: T	No:	NA:		
Calibrations include all pertinent analytes:	Yes: T	No:	NA:		
Initial calibration in control:	Yes: T	No:	NA:		
Second source calibrations in control:	Yes: T	No:	NA:		
LCS/(LCSD) passes:	Yes: T	No:	NA:		
Method blank/calibration blank passes:	Yes: T	No:	NA:		
Matrix Duplicate and MS/MSD passes:	Yes: T	No:	NA:		
Surrogate passes:	Yes:	No:	NA: T		
Results transcribed correctly from raw data:	Yes: T	No:	NA:		
Do the dilutions agree?	Yes: T	No:	NA:		
Were soil samples corrected for % moisture:	Yes:	No: T	NA:		
Manual integration 2nd level review:	Yes:	No:	NA: T		
Deviations to any of the above items:	Yes:	No: T	NA:		
Reasons/explanation for deviation & supervisors initial:					
Name of analyst(s)/Date: GG /10-26-2018					
Name of Data entry/Date: GG /10-26-2018					
Name of reviewer/Date: Sue/ 10-29-2018					
Comments:					



ALPHA SCIENTIFIC CORPORATION
CHAIN OF CUSTODY RECORD

Lab Job Number

Client: AECOM		Address: 1360 E. Spruce Ave., Suite 101, Fresno, CA 93720		Sampled by: <i>Chad Neptune</i>		Project Name/No.: Planned Church-Orangewood School Site		T.A.T. Requested: <input type="checkbox"/> Rush 8 24 hrs <input checked="" type="checkbox"/> 5 days	
Report Attention: Stuart St. Clair	Phone: 559-490-8308	Fax:	Lab Sample ID	Date	Time	Matrix Type	Sample Preserv	No. type* & size of container	Analyses Requested
Project Name/No.: 60585189.2	Project Site:		Sample Collect	Date	Time	Matrix Type	Sample Preserv	No. type* & size of container	Analyses Requested
C-1A-0.5'	UR 810071-1			10/23/13	0830	Soil	None	1	OCPs (USEPA 8081A) Arsenic (USEPA 6010B) Lead (USEPA 6010B)
C-2A-0.5' } Composite	-2			0832		Soil	None	1	
C-3A-0.5' } OCPs + lab duplicate	-3			0834		Soil	None	1	
C-4B-0.5'	-4			0840		Soil	None	1	
C-5B-0.5' } Composite	-5			0838		Soil	None	1	
C-6B-0.5' } OCPs	-6			0836		Soil	None	1	
C-7C-0.5'	-7			0842		Soil	None	1	
C-8C-0.5' } Composite	-8			0844		Soil	None	1	
C-9C-0.5' } OCPs	-9			0846		Soil	None	1	
C-10D-0.5'	-10			0852		Soil	None	1	
C-11D-0.5' } Composite	-11			0850		Soil	None	1	
C-12D-0.5' } OCPs	-12			0848		Soil	None	1	
Relinquished by: <i>Dubla</i>	Company: AECOM	Date: 10/23	Time: 11:00	Received by: <i>Fedex</i>	Company:	Date:	Time:	Container types: M=Metal Tube, P=Plastic bottle, V=VOA vial	
Relinquished by:	Company:	Date:	Time:	Received by: <i>FWW-Asc</i>	Company:	Date: 10/24/13	Time: 9:10 AM		

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense. Distribution: WHITE with report. PINK to courier.

Alpha Scientific Corporation
16760 Gridley Road
Cerritos, CA 90703
Tel: (562) 809-8880
Fax: (562) 809-8801

Alpha Scientific Corporation Sample Acceptance Checklist

Section 1

Client: AECOM Project: Church School Lab Job# WR810071

Date Received: 10-24-2018

Sample(s) received in cooler(s)? Yes No (skip to Section 2)

Cooler(s) packed with: Ice Ice Packs Packing Material

Cooler Temperature (°C): #1: 4°C #2: #3: #4: #5:

(Acceptable range is 0°C to 6°C or arriving on ice for samples received on the same day as collected.)

(Ambient Temperature for vapor or air samples is acceptable).

If sample(s) received outside acceptable range, Project Manager contacted by (Personnel Initial):

Section 2	YES	NO	N/A
Was a COC received?	✓		
Were client sample IDs present?	✓		
Were sample(s) collection dates present?	✓		
Was the COC signed?	✓		
Were tests clearly indicated?	✓		
Did all samples arrive intact? If no, indicate below.	✓		
Did all container labels agree with COC?	✓		
Were correct containers used for the tests required?	✓		
Was there sufficient sample amount for requested tests?	✓		
Were the samples correctly preserved?	✓		
Was there headspace in VOA vials?			✓
Were Custody seals present?		✓	
If yes-were they intact?			✓

Section 3

Explanations/Comments: _____

Section 4

Was the Project Manager notified of anomalies? Yes No N/A

Via Phone: By: _____ Date/Time _____

By Email: Sent to: _____

Project Manager's response: _____

Completed by: RW. Date: 10-24-2018

Alpha Scientific Corporation
16760 Gridley Road
Cerritos, CA 90703

Email: asc90703@gmail.com
Tel: (562) 809-8880
Fax: (562) 809-8801

APPENDIX C

PEA Field Work Notice



Preparing Career Ready Graduates

October 8, 2018



BOARD OF EDUCATION

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Brooke Ashjian
Claudia Cazares
Christopher De La Cerda
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Carol Mills, J.D.

SUPERINTENDENT

Robert G. Nelson, Ed.D.

TO: Community Members and Neighbors of Planned School, Southwest Corner of E. Church Avenue and S. Orangewood Drive, Fresno, Fresno County, CA

FROM: Fresno Unified School District (FUSD)

RE: Preliminary Environmental Assessment at Planned School Site

We would like to provide you with advance notice of an environmental assessment that will be conducted at the planned school site located on approximately 5 acres of land at the southwest corner of E. Church Avenue and S. Orangewood Drive, Fresno, Fresno County, CA (map attached). This assessment is related to the requirements of the California Department of Education (CDE) regarding proposed school sites.

The assessment will be performed by a licensed contractor under the oversight of the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC). The assessment will consist of collecting surface soil samples using hand-held sampling equipment to assess for possible releases of chemicals that may have been used at the site. Although an assessment will be conducted, this does not mean hazardous substances are located on this property. State laws require that all proposed new state-funded school sites undergo a complete environmental review, and if necessary, a cleanup to protect students, faculty and staff who will occupy the school.

Field work will require approximately one day and is scheduled to occur beginning the week of October 22, 2018, depending upon factors such as weather conditions and contractor availability. All field work will be conducted during normal business hours. Street closures will not be required during the assessment.

The Fresno Unified School District (FUSD) will submit the results of this Preliminary Environmental Assessment (PEA) in a draft report to DTSC for review. The PEA report will include an assessment of whether hazardous materials are present and, if so, whether the materials are present in concentrations that would require some type of cleanup before implementing the project. The FUSD will hold a 30-day public review and comment period on the draft PEA report. Additionally, the FUSD will conduct a public hearing to discuss the PEA results and receive comments from the public. All comments received in this process shall be forwarded to DTSC for consideration.

The draft PEA report will be made available for review at the FUSD Facilities Management & Planning office (4600 N. Brawley Avenue, Fresno, CA) and the Mosqueda Branch Public Library (4670 E. Butler Avenue, Fresno, CA). Notice of the start of the 30-day review period, date of public hearing, and location of repositories will be published in the Fresno Bee. When the public participation process is complete, DTSC will issue a final determination with regard to the PEA.

If you have any questions concerning the upcoming assessment or other activities of the potential construction project, please contact Mr. William (Alex) Belanger, FUSD Assistant Superintendent, Facilities Management & Planning, by telephone at (559) 457-6126 or by email at william.belanger@fresnounified.org, or the DTSC Project Manager, Ms. Elizabeth Tisdale, by telephone at (916) 255-6666 or by email at elizabeth.tisdale@dtsc.ca.gov.

We will appreciate your understanding during the environmental review process.



Preparing Career Ready Graduates



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SUPERINTENDENT

Robert G. Nelson, Ed.D.

8 de octubre, 2018

PARA: Miembros Comunitarios y Vecinos del Plan Escolar, Esquina Sudoeste de la avenida E. Church y S. Orangewood Drive, Fresno, Condado de Fresno, CA

DEL: Distrito Escolar Unificado de Fresno (FUSD)

ASUNTO: Evaluación Ambiental Preliminar en el Plan de la Escuela Prevista

Deseamos proveerle con anticipación el aviso de una evaluación ambiental que se conducirá en la escuela planeada localizada en aproximadamente 5 acres de terreno en la esquina sudoeste de E. Church Avenue y S. Orangewood Drive, Fresno, en el Condado de Fresno, CA (mapa anexo). Esta evaluación está relacionada con los requisitos del Departamento de Educación de California (CDE) con relación a la propuesta escolar.

La evaluación será ejecutada por un contratista con licencia bajo la supervisión del Departamento de Control de Sustancias Tóxicas (DTSC) de la Agencia de Protección Ambiental de California. La evaluación consistirá en obtener muestras de la superficie del suelo usando maquinaria manual para evaluar la posible descarga de químicos que posiblemente se usaron en ese terreno. Aunque se conducirá una evaluación, esto no significa que existen sustancias peligrosas en esta propiedad. Las leyes estatales requieren que se lleve a cabo una revisión ambiental completa en los sitios de todas las escuelas nuevas propuestas, financiadas por el estado y, de ser necesario, una limpieza para proteger a los estudiantes, facultad y al personal que ocupará la escuela.

El trabajo del terreno requerirá aproximadamente un día y está programado para iniciar la semana del 22 de octubre del 2018, dependiendo en factores como las condiciones del tiempo y disponibilidad del contratista. Todo trabajo del terreno será conducido durante los horarios normales laborales. No será necesario cerrar la calle durante la evaluación.

El Distrito Escolar Unificado de Fresno (FUSD) presentará el reporte de los resultados de la Evaluación Ambiental Preliminar (PEA) en borrador al DTSC para su revisión. El reporte PEA incluye una evaluación sobre la existencia de materiales peligrosos y evalúa si las concentraciones de dichos materiales requieren algún tipo de limpieza antes de implementar el proyecto. El Distrito Escolar Unificado de Fresno (FUSD) llevará a cabo una revisión pública de 30 días y periodo de comentarios sobre el reporte del borrador de la Evaluación PEA. Adicionalmente, El Distrito Escolar Unificado de Fresno (FUSD) conducirá una audiencia pública para discutir los resultados de la Evaluación PEA y recibir comentarios del público. Todos los comentarios que se reciban en este proceso serán enviados a DTSC para consideración.

El reporte del borrador de la Evaluación PEA estará disponible para su revisión en la oficina de las Instalaciones Administrativas y Planeamiento del Distrito Escolar Unificado de Fresno (FUSD) (4600 N. Brawley Avenue, Fresno, CA) y en la Biblioteca Pública Mosqueda (4670 E. Butler Avenue, Fresno, CA). El aviso del inicio del periodo de revisión de 30 días, fecha de la audiencia pública y la ubicación de los repositorios será publicado en el periódico Fresno Bee. Cuando se complete el proceso de participación pública, el departamento DTSC tomará la determinación final con relación a la Evaluación Ambiental Preliminar (PEA).

Si usted tiene alguna pregunta en relación a la próxima evaluación u otras actividades del Proyecto de construcción potencial, por favor comuníquese con el Sr. William (Alex) Belanger, Asistente del Superintendente de las Instalaciones Administrativas y Planeamiento FUSD, por teléfono al (559) 457-6126 o por correo electrónico, william.belanger@fresnounified.org, o con la Srta. Elizabeth Tisdale, Administradora del Proyecto DTSC, al teléfono (916) 255-6666 o por correo electrónico, elizabeth.tisdale@dtsc.ca.gov.

Agradecemos su comprensión durante el proceso de revisión ambiental.



Preparing Career Ready Graduates



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SUPERINTENDENT

Robert G. Nelson, Ed.D.

Kaum Hli 8, 2018

XA RAU: Cov Neeg Zej Zoog thiab Zej Zog Npaj Tsev Kawm Ntawv, Ces Kaum Kev Sab Hnub Poo Qab Teb ntawm Hnub Tawm txoj kev Church Avenue thiab Qab Teb txoj kev Orangewood Drive, Fresno, Fresno County, CA

LOS NTAWM: Fresno Unified School District (FUSD)

HAIS TXOG: Kev Soj Ntsuam Ua Ntej Cuam Tshuam Npaj Ua Lub Tsev Kawm Ntawv

Peb xav los muab lus ceeb toom rau koj ua ntej txog ib qho kev soj ntsuam chaw uas yuav raug ua ntawm qhov chaw npaj ua tsev kawm ntawv nyob kwv lam li ntawm 5 acres av nyob natwm ces kaum kev sab hnub tawm ntawm txoj Church Avenue thiab sab qab teb txoj kev Orangewood Drive, Fresno, Fresno County, CA (ntawv qhia kev tom nrog). Qhov kev soj ntsua no yog muaj feem rau kev tseev kom muaj ntawm California Department of Education (CDE) txog kev ua chaw tsev kawm ntawv.

Qhov kev soj ntsua yuav raug ua los ntawm ib tug neeg ua vaj ua tsev muaj ntaub ntawv lais xees (licensed) raug saib xyuas los ntawm "California Environmental Protection Agency", Department of Toxic Substances Control (DTSC). Qhov kev soj ntsuam no yuav muaj muab cov av coj mus ntsuam xyuas tsum tau siv tshuaj nyob rau thaj chaw yuav npaj ua tsev kawm ntawv no. Txawm tias yuav muaj qhov kev soj ntsuam los, yuav tsis txhais tau tias yuav tsis muaj tej tshuaj txaus ntshai muaj nyob rau ntawm qhov chaw no. Lub Xeev tej kev cai tseev kom txhua thaj chaw tshiab lub xeev ua tus them nyiaj ua cov tsev kawm ntawv yuav tsum tau ua kom tiav ib qho kev ua zoo xyuas chaw puag ncig, thiab yog tias muaj kev tsim nyog, ib qho kev tu los tiv thaiv tej tub kawm ntawv, tej xib fwb thiab tej neeg khiav dej num nws yuav los nyob hauv lub tsev kawm ntawv.

Kev ua hauj lwm ntawm lub tshav yuav siv sij hawm li ntawm ib hnub thiab tau raug teem tseg tshwm sim pib ntawm lub lim tiaj ntawm Kaum Hli 22, 2018, nyob ntawm seb tej yam cuam tsuam xws li fuab cua thiab tus neeg ua vaj ua tsev puas xyeej. Tag nrog kev ua hauj lwm tom lub tshav yuav tsum yog ua nyob rau lub sij hawm ua hauj lwm. Tej kev yuav tsis raug kaw nyob rau lub sij hawm ua kev soj ntsuam.

Fresno Hauv Paus Tsev Kawm Ntawv (FUSD) yuav tau cob tej kev tshwm sim ntawm qhov Kev Soj Ntsuam Chaw Ua Ntej (PEA) hauv ib tsab ntawv tshaj qhia ua saib ua ntej rau DTSC rau kev ua zoo xyuas. PEA kev tshaj qhia yuav tsum muaj ib qho kev soj ntsuam seb puas muaj tej khoom txaus ntshai muaj nyob rau hauv thaj av thiab, yog tias muaj, seb tej khoom ntawm puas yog nyob rau ib koog uas yuav tsum tau tu kom huv si ua ntej pib ua qhov dej num. FUSD yuav muaj ib qho 30 hnub rau tsoom pej xeev ua zoo xyuas thiab sij hawm muab lus txhab ntxiv rau PEA qhov kev tshaj qhia ua saib ua ntej. Ntxiv ntawd, FUSD yuav muaj pej xeev ib qho kev sib hais los tham PEA tej kev tshwm sim thiab txais tej lus txhab ntxiv los ntawm tsoom pej xeev. Tag nrho tej lus txhab ntxiv tau txais rau qhov kev ua ntawm no yuav raug muab xa mus rau DTSC rau kev pom zoo.

PEA qhov kev tshaj qhia ua saib ua ntej yuav muaj rau kev ua zoo xyuas nyob ntawm FUSD Facilities Management & Planning office (4600 N. Brawley Avenue, Fresno, CA) thiab Mosqueda Branch Public Library (4670 E. Butler Avenue, Fresno, CA). Ntawv ceeb toom hnub pib ntawm sij hawm 30 hnub ua zoo xyuas, hnub pej xeev kev sib hais, thiab qhov chaw yuav raug muab luam tawm nyob rau hauv Fresno Bee. Thaum pej xeev kev koom tes tau ua tiav tag lawm, DTSC yuav muab qhov kev txiav txim siab zaum kawg hais txog PEA.

Yog tias koj muaj lus nug txog qhov kev soj ntsuam yuav muaj ua los no los yog lwm yam dej num ua tsim chaw, thov hu rau Yawg William (Alex) Belanger, FUSD Assistant Superintendent, Facilities Management & Planning, los ntawm tus xov tooj (559) 457-6126 los yog los ntawm sau email rau william.belanger@fresnounified.org, los yog DTSC Project Manager, Ms. Elizabeth Tisdale, los ntawm hu rau (916) 255-6666 los yog los ntawm sau email rau elizabeth.tisdale@dtsc.ca.gov.

Peb yuav zoo siab rau koj kev to taub lub sij hawm kev taug ua ua zoo xyuas thaj chaw.



Aerial Photo: February 2018

Site Location Map
Planned Phoenix Secondary School Site
Southwest of Church Ave. & Orangewood Drive
Fresno, CA



Figure 1



VIA ELECTRONIC MAIL
(elizabeth.tisdale@dtsc.ca.gov)

May 16, 2019

Ms. Elizabeth Tisdale
Schools Unit – Sacramento Office
Department of Toxic Substances Control
8800 Cal Center Drive, 2nd Floor
Sacramento, California 95826

**Subject: PEA Public Participation
Planned School Site
5 Acres at the Southwest Corner of Church Ave. and Oranewood Dr.
Fresno, California
(DTSC Site Code 104792)**

Dear Ms. Tisdale:

This letter was prepared by AECOM Technical Services, Inc. (AECOM) on behalf of Fresno Unified School District (FUSD, Client). AECOM is currently conducting a Preliminary Environmental Assessment (PEA) for the subject planned school site. Prior to performing the PEA field work in October 2018, a work notice was mailed to residents within view of the site and also posted at the site. The field work notice is attached.

CUSD provided a public comment period for the PEA Report from March 22 through May 6, 2019, and held a public hearing on May 1, 2019, pursuant to the requirements of California Education Code Section 17213.1(a). The public comment period was originally scheduled to end on April 22 but was extended to May 6. Notices of the public comment period were published in a general circulation newspaper on March 8, 2019, and April 27, 2019. The notices are attached. During the public comment period, the PEA Report was available for public review and comment. No written public comments on the PEA Report were received during the comment period. The board meeting agenda, listing the public hearing, is attached. Two community members, Mr. Venancio Gaona and Mr. Leonard Carrillo, spoke at the public hearing, expressing support for construction of the new school but not addressing any of the information presented in the PEA Report. Their comments are attached.

Please let me know if you need anything further from us. We look forward to DTSC's approval of the PEA Report at the earliest opportunity.

Sincerely,
AECOM Technical Services, Inc.

Stuart B. St. Clair, PE
Project Civil Engineer

Attachments

cc: Rick Andreasen, Project Manager, FUSD Facilities Management and Planning

AECOM Technical Services, Inc.
1360 E. Spruce Avenue, Suite 101
Fresno, CA 93720
Tel: 559-448-8222
Fax: 559-448-8233



Preparing Career Ready Graduates



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SUPERINTENDENT

Robert G. Nelson, Ed.D.

October 8, 2018

TO: Community Members and Neighbors of Planned School, Southwest Corner of E. Church Avenue and S. Orangewood Drive, Fresno, Fresno County, CA

FROM: Fresno Unified School District (FUSD)

RE: Preliminary Environmental Assessment at Planned School Site

We would like to provide you with advance notice of an environmental assessment that will be conducted at the planned school site located on approximately 5 acres of land at the southwest corner of E. Church Avenue and S. Orangewood Drive, Fresno, Fresno County, CA (map attached). This assessment is related to the requirements of the California Department of Education (CDE) regarding proposed school sites.

The assessment will be performed by a licensed contractor under the oversight of the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC). The assessment will consist of collecting surface soil samples using hand-held sampling equipment to assess for possible releases of chemicals that may have been used at the site. Although an assessment will be conducted, this does not mean hazardous substances are located on this property. State laws require that all proposed new state-funded school sites undergo a complete environmental review, and if necessary, a cleanup to protect students, faculty and staff who will occupy the school.

Field work will require approximately one day and is scheduled to occur beginning the week of October 22, 2018, depending upon factors such as weather conditions and contractor availability. All field work will be conducted during normal business hours. Street closures will not be required during the assessment.

The Fresno Unified School District (FUSD) will submit the results of this Preliminary Environmental Assessment (PEA) in a draft report to DTSC for review. The PEA report will include an assessment of whether hazardous materials are present and, if so, whether the materials are present in concentrations that would require some type of cleanup before implementing the project. The FUSD will hold a 30-day public review and comment period on the draft PEA report. Additionally, the FUSD will conduct a public hearing to discuss the PEA results and receive comments from the public. All comments received in this process shall be forwarded to DTSC for consideration.

The draft PEA report will be made available for review at the FUSD Facilities Management & Planning office (4600 N. Brawley Avenue, Fresno, CA) and the Mosqueda Branch Public Library (4670 E. Butler Avenue, Fresno, CA). Notice of the start of the 30-day review period, date of public hearing, and location of repositories will be published in the Fresno Bee. When the public participation process is complete, DTSC will issue a final determination with regard to the PEA.

If you have any questions concerning the upcoming assessment or other activities of the potential construction project, please contact Mr. William (Alex) Belanger, FUSD Assistant Superintendent, Facilities Management & Planning, by telephone at (559) 457-6126 or by email at william.belanger@fresnounified.org, or the DTSC Project Manager, Ms. Elizabeth Tisdale, by telephone at (916) 255-6666 or by email at elizabeth.tisdale@dtsc.ca.gov.

We will appreciate your understanding during the environmental review process.



Preparing Career Ready Graduates



BOARD OF EDUCATION

Elizabeth Jonasson Rosas, President
Valerie F. Davis, Clerk
Brooke Ashjian
Claudia Cazares
Christopher De La Cerda
Lindsay Cal Johnson
Carol Mills, J.D.

SUPERINTENDENT

Robert G. Nelson, Ed.D.

8 de octubre, 2018

PARA: Miembros Comunitarios y Vecinos del Plan Escolar, Esquina Sudoeste de la avenida E.
Church y S. Orangewood Drive, Fresno, Condado de Fresno, CA

DEL: Distrito Escolar Unificado de Fresno (FUSD)

ASUNTO: Evaluación Ambiental Preliminar en el Plan de la Escuela Prevista

Deseamos proveerle con anticipación el aviso de una evaluación ambiental que se conducirá en la escuela planeada localizada en aproximadamente 5 acres de terreno en la esquina sudoeste de E. Church Avenue y S. Orangewood Drive, Fresno, en el Condado de Fresno, CA (mapa anexo). Esta evaluación está relacionada con los requisitos del Departamento de Educación de California (CDE) con relación a la propuesta escolar.

La evaluación será ejecutada por un contratista con licencia bajo la supervisión del Departamento de Control de Sustancias Tóxicas (DTSC) de la Agencia de Protección Ambiental de California. La evaluación consistirá en obtener muestras de la superficie del suelo usando maquinaria manual para evaluar la posible descarga de químicos que posiblemente se usaron en ese terreno. Aunque se conducirá una evaluación, esto no significa que existen sustancias peligrosas en esta propiedad. Las leyes estatales requieren que se lleve a cabo una revisión ambiental completa en los sitios de todas las escuelas nuevas propuestas, financiadas por el estado y, de ser necesario, una limpieza para proteger a los estudiantes, facultad y al personal que ocupará la escuela.

El trabajo del terreno requerirá aproximadamente un día y está programado para iniciar la semana del 22 de octubre del 2018, dependiendo en factores como las condiciones del tiempo y disponibilidad del contratista. Todo trabajo del terreno será conducido durante los horarios normales laborales. No será necesario cerrar la calle durante la evaluación.

El Distrito Escolar Unificado de Fresno (FUSD) presentará el reporte de los resultados de la Evaluación Ambiental Preliminar (PEA) en borrador al DTSC para su revisión. El reporte PEA incluye una evaluación sobre la existencia de materiales peligrosos y evalúa si las concentraciones de dichos materiales requieren algún tipo de limpieza antes de implementar el proyecto. El Distrito Escolar Unificado de Fresno (FUSD) llevará a cabo una revisión pública de 30 días y periodo de comentarios sobre el reporte del borrador de la Evaluación PEA. Adicionalmente, El Distrito Escolar Unificado de Fresno (FUSD) conducirá una audiencia pública para discutir los resultados de la Evaluación PEA y recibir comentarios del público. Todos los comentarios que se reciban en este proceso serán enviados a DTSC para consideración.

El reporte del borrador de la Evaluación PEA estará disponible para su revisión en la oficina de las Instalaciones Administrativas y Planeamiento del Distrito Escolar Unificado de Fresno (FUSD) (4600 N. Brawley Avenue, Fresno, CA) y en la Biblioteca Pública Mosqueda (4670 E. Butler Avenue, Fresno, CA). El aviso del inicio del periodo de revisión de 30 días, fecha de la audiencia pública y la ubicación de los repositorios será publicado en el periódico Fresno Bee. Cuando se complete el proceso de participación pública, el departamento DTSC tomará la determinación final con relación a la Evaluación Ambiental Preliminar (PEA).

Si usted tiene alguna pregunta en relación a la próxima evaluación u otras actividades del Proyecto de construcción potencial, por favor comuníquese con el Sr. William (Alex) Belanger, Asistente del Superintendente de las Instalaciones Administrativas y Planeamiento FUSD, por teléfono al (559) 457-6126 o por correo electrónico, william.belanger@fresnounified.org, o con la Srta. Elizabeth Tisdale, Administradora del Proyecto DTSC, al teléfono (916) 255-6666 o por correo electrónico, elizabeth.tisdale@dtsc.ca.gov.

Agradecemos su comprensión durante el proceso de revisión ambiental.



Preparing Career Ready Graduates



Facilities Management & Planning

BOARD OF EDUCATION

Elizabeth Jonasson Rosas, President
Valerie F. Davis, Clerk
Brooke Ashjian
Claudia Cazares
Christopher De La Cerda
Lindsay Cal Johnson
Carol Mills, J.D.

SUPERINTENDENT

Robert G. Nelson, Ed.D.

Kaum Hli 8, 2018

XA RAU: Cov Neeg Zej Zoog thiab Zej Zog Npaj Tsev Kawm Ntawv, Ces Kaum Kev Sab Hnub Poo Qab Teb ntawm Hnub Tawm txoj kev Church Avenue thiab Qab Teb txoj kev Orangewood Drive, Fresno, Fresno County, CA

LOS NTAWM: Fresno Unified School District (FUSD)

HAIS TXOG: Kev Soj Ntsuam Ua Ntej Cuam Tshuam Npaj Ua Lub Tsev Kawm Ntawv

Peb xav los muab lus ceeb toom rau koj ua ntej txog ib qho kev soj ntsuam chaw uas yuav raug ua ntawm qhov chaw npaj ua tsev kawm ntawv nyob kwv lam li ntawm 5 acres av nyob natwm ces kaum kev sab hnub tawm ntawm txoj Church Avenue thiab sab qab teb txoj kev Orangewood Drive, Fresno, Fresno County, CA (ntawv qhia kev tom nrog). Qhov kev soj ntsua no yog muaj feem rau kev tseev kom muaj ntawm California Department of Education (CDE) txog kev ua chaw tsev kawm ntawv.

Qhov kev soj ntsua yuav raug ua los ntawm ib tug neeg ua vaj ua tsev muaj ntaub ntawv lais xees (licensed) raug saib xyuas los ntawm "California Environmental Protection Agency", Department of Toxic Substances Control (DTSC). Qhov kev soj ntsuam no yuav muaj muab cov av coj mus ntsuam xyuas tsam tau siv tshuaj nyob rau thaj chaw yuav npaj ua tsev kawm ntawv no. Txawm tias yuav muaj qhov kev soj ntsuam los, yuav tsis txhais tau tias yuav tsis muaj tej tshuaj txaus ntshai muaj nyob rau ntawm qhov chaw no. Lub Xeev tej kev cai tseev kom txhua thaj chaw tshiab lub xeev ua tus them nyiaj ua cov tsev kawm ntawv yuav tsum tau ua kom tiav ib qho kev ua zoo xyuas chaw puag ncig, thiab yog tias muaj kev tsim nyog, ib qho kev tu los tiv thaiv tej tub kawm ntawv, tej xib fwb thiab tej neeg khiav dej num nws yuav los nyob hauv lub tsev kawm ntawv.

Kev ua hauj lwm ntawm lub tshav yuav siv sij hawm li ntawm ib hnub thiab tau raug teem tseg tshwm sim pib ntawm lub lim tiaj ntawm Kaum Hli 22, 2018, nyob ntawm seb tej yam cuam tsuam xws li fuab cua thiab tus neeg ua vaj ua tsev puas xyeej. Tag nrog kev ua hauj lwm tom lub tshav yuav tsum yog ua nyob rau lub sij hawm ua hauj lwm. Tej kev yuav tsis raug kaw nyob rau lub sij hawm ua kev soj ntsuam.

Fresno Hauv Paus Tsev Kawm Ntawv (FUSD) yuav tau cob tej kev tshwm sim ntawm qhov Kev Soj Ntsuam Chaw Ua Ntej (PEA) hauv ib tsab ntawv tshaj qhia ua saib ua ntej rau DTSC rau kev ua zoo xyuas. PEA kev tshaj qhia yuav tsum muaj ib qho kev soj ntsuam seb puas muaj tej khoom txaus ntshai muaj nyob rau hauv thaj av thiab, yog tias muaj, seb tej khoom ntawm puas yog nyob rau ib koog uas yuav tsum tau tu kom huv si ua ntej pib ua qhov dej num. FUSD yuav muaj ib qho 30 hnub rau tsoom pej xeev ua zoo xyuas thiab sij hawm muab lus txhab ntxiv rau PEA qhov kev tshaj qhia ua saib ua ntej. Ntxiv ntawd, FUSD yuav muaj pej xeev ib qho kev sib hais los tham PEA tej kev tshwm sim thiab txais tej lus txhab ntxiv los ntawm tsoom pej xeev. Tag nrho tej lus txhab ntxiv tau txais rau qhov kev ua ntawm no yuav raug muab xa mus rau DTSC rau kev pom zoo.

PEA qhov kev tshaj qhia ua saib ua ntej yuav muaj rau kev ua zoo xyuas nyob ntawm FUSD Facilities Management & Planning office (4600 N. Brawley Avenue, Fresno, CA) thiab Mosqueda Branch Public Library (4670 E. Butler Avenue, Fresno, CA). Ntawv ceeb toom hnub pib ntawm sij hawm 30 hnub ua zoo xyuas, hnub pej xeev kev sib hais, thiab qhov chaw yuav raug muab luam tawm nyob rau hauv Fresno Bee. Thaum pej xeev kev koom tes tau ua tiav tag lawm, DTSC yuav muab qhov kev txiav txim siab zaum kawg hais txog PEA.

Yog tias koj muaj lus nug txog qhov kev soj ntsuam yuav muaj ua los no los yog lwm yam dej num ua tsim chaw, thov hu rau Yawg William (Alex) Belanger, FUSD Assistant Superintendent, Facilities Management & Planning, los ntawm tus xov tooj (559) 457-6126 los yog los ntawm sau email rau william.belanger@fresnounified.org, los yog DTSC Project Manager, Ms. Elizabeth Tisdale, los ntawm hu rau (916) 255-6666 los yog los ntawm sau email rau elizabeth.tisdale@dtsc.ca.gov.

Peb yuav zoo siab rau koj kev to taub lub sij hawm kev taug ua ua zoo xyuas thaj chaw.



Aerial Photo: February 2018



Site Location Map
Planned Phoenix Secondary School Site
Southwest of Church Ave. & Orangewood Drive
Fresno, CA

Figure 1

AFFIDAVIT OF PUBLICATION

Account #	Ad Number	Identification	PO	Amount	Cols	Depth
331720	0004119608	#4119608 FRESNO UNIFIED SCHOOL DISTRICT	Brenda Cardoza	\$1,003.20	2	6.29 In

Attention:

FRESNO UNIFIED SCHOOL DISTRICT
2309 TULARE STREET RM 211
FRESNO, CA 93721

**COUNTY OF DALLAS
STATE OF TEXAS**

The undersigned states:

McClatchy Newspapers in and on all dates herein stated was a corporation, and the owner and publisher of The Fresno Bee.
The Fresno Bee is a daily newspaper of general circulation now published, and on all-the-dates herein stated was published in the City of Fresno, County of Fresno, and has been adjudged a newspaper of general circulation by the Superior Court of the County of Fresno, State of California, under the date of November 28, 1994, Action No. 520058-9.

The undersigned is and on all dates herein mentioned was a citizen of the United States, over the age of twenty-one years, and is the principal clerk of the printer and publisher of said newspaper; and that the notice, a copy of which is hereto annexed, marked Exhibit A, hereby made a part hereof, was published in The Fresno Bee in each issue thereof (in type not smaller than nonpareil), on the following dates.

March 08, 2019



I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Dated March 08, 2019

Stefani Beard

Extra charge for lost or duplicate affidavits.
Legal document please do not destroy!

PUBLIC NOTICE

#4119608

FRESNO UNIFIED SCHOOL DISTRICT
4600 N. BRAWLEY AVENUE, FRESNO, CA 93722
(559) 457-3074

PUBLIC NOTICE
PUBLIC COMMENT PERIOD AND PUBLIC HEARING
PRELIMINARY ENVIRONMENTAL ASSESSMENT REPORT

Project Title and Location:

The planned school site is located on approximately 5 acres of land at the southwest corner of E. Church Avenue and S. Orangewood Drive, Fresno, Fresno County, California. The Fresno Unified School District (FUSD) has prepared a Preliminary Environmental Assessment (PEA) Report for the proposed school site in accordance with Education Code section 17213.1(a)(4)(B). The PEA Report has been submitted to DTSC for review, and the PEA Report is available for public review and comment pursuant to Education Code section 17213.1 (a)(6)(A).

Description of Assessment:

Soil sampling performed at the site indicates that arsenic and lead concentrations detected in soil are within the range of regional background concentrations. No organochlorine pesticides were detected in the soil samples. Based on the analytical results, the PEA Report concludes that further action is not needed at the site.

Lead Agency:

The PEA process is being completed with the oversight of the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC).

The PEA Report and Supporting Documents are Available for Review at:

Fresno Unified School District 4600 N. Brawley Avenue Fresno, California 93722 (559) 457-6126	Mosqueda Branch Public Library 4670 E. Buller Avenue Fresno, California 93702 (559) 453-4072
--	---

DTSC "EnviroStor" database:

Additional site information can also be found at the following DTSC web site:
http://www.envirostor.dtsc.ca.gov/public/profile_report.asp?global_id=60002701

Public Comment Period:

FUSD will receive written comments on the PEA Report from March 22, 2019 through April 22, 2019. All comments should be directed to Mr. William (Alex) Belanger, FUSD Assistant Superintendent, Department of Facilities Management & Planning, at the address listed above.

Public Hearing:

A public hearing to discuss the PEA Report will be held on April 10, 2019, at 5:30 p.m. at the FUSD Board Room located at 2309 Tulare Street, Second Floor, Fresno, CA, 93721-2287. Public comments (verbal and written) on the PEA Report will be received during the public hearing.

Publish: March 8, 2019

AFFIDAVIT OF PUBLICATION

Account #	Ad Number	Identification	PO	Amount	Cols	Depth
331720	0004191606	#4191606 FRESNO UNIFIED SCHOOL DISTRICT	Brenda Cardoza	\$991.80	2	6.18 In

Attention:

FRESNO UNIFIED SCHOOL DISTRICT
2309 TULARE STREET RM 211
FRESNO, CA 93721

**COUNTY OF DALLAS
STATE OF TEXAS**

The undersigned states:

McClatchy Newspapers in and on all dates herein stated was a corporation, and the owner and publisher of The Fresno Bee.

The Fresno Bee is a daily newspaper of general circulation now published, and on all-the-dates herein stated was published in the City of Fresno, County of Fresno, and has been adjudged a newspaper of general circulation by the Superior Court of the County of Fresno, State of California, under the date of November 28, 1994, Action No. 520058-9.

The undersigned is and on all dates herein mentioned was a citizen of the United States, over the age of twenty-one years, and is the principal clerk of the printer and publisher of said newspaper; and that the notice, a copy of which is hereto annexed, marked Exhibit A, hereby made a part hereof, was published in The Fresno Bee in each issue thereof (in type not smaller than nonpareil), on the following dates.

April 27, 2019

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Dated April 29, 2019

L. Cordero

Extra charge for lost or duplicate affidavits.
Legal document please do not destroy!

PUBLIC NOTICE

#4191606

FRESNO UNIFIED SCHOOL DISTRICT
4600 N. BRAWLEY AVENUE, FRESNO, CA 93722
(559) 457-3074

PUBLIC NOTICE
PUBLIC COMMENT PERIOD AND PUBLIC HEARING
PRELIMINARY ENVIRONMENTAL ASSESSMENT REPORT

Project Title and Location:

The planned school site is located on approximately 5 acres of land at the southwest corner of E. Church Avenue and S. Orangewood Drive, Fresno, Fresno County, California. The Fresno Unified School District (FUSD) has prepared a Preliminary Environmental Assessment (PEA) Report for the proposed school site in accordance with Education Code section 17213.1(a)(4)(B). The PEA Report has been submitted to DTSC for review, and the PEA Report is available for public review and comment pursuant to Education Code section 17213.1 (a)(6)(A).

Description of Assessment:

Soil sampling performed at the site indicates that arsenic and lead concentrations detected in soil are within the range of regional background concentrations. No organochlorine pesticides were detected in the soil samples. Based on the analytical results, the PEA Report concludes that further action is not needed at the site.

Lead Agency:

The PEA process is being completed with the oversight of the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC).

The PEA Report and Supporting Documents are Available for Review at:

Fresno Unified School District 4600 N. Brawley Avenue Fresno, California 93722 (559) 457-6126	Mosqueda Branch Public Library 4670 E. Butler Avenue Fresno, California 93702 (559) 453-4072
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DTSC "EnviroStor" database:

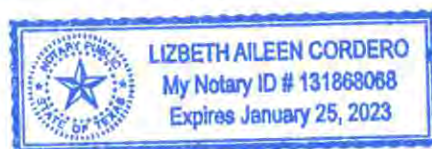
Additional site information can also be found at the following DTSC web site:
http://www.envirostor.dtsc.ca.gov/public/profile_report.asp?global_id=60002701

Public Comment Period:

FUSD will receive written comments on the PEA Report from March 22, 2019 through May 6, 2019. The end date has been extended from the previous date of April 22, 2019 that was set forth in the earlier notice published on March 8, 2019. All comments should be directed to Mr. William (Alex) Belanger, FUSD Assistant Superintendent, Department of Facilities Management & Planning, at the address listed above.

Public Hearing:

A public hearing to discuss the PEA Report will be held on May 1, 2019, at 5:30 p.m. at the FUSD Board Room located at 2309 Tulare Street, Second Floor, Fresno, CA, 93721-2287. The meeting date has been rescheduled from the previous date notice published on March 8, 2019. Public comments (verbal and written) on the PEA Report will be received during the public hearing.



**AGENDA
WEDNESDAY, MAY 01, 2019, 4:30 P.M.**

*****IMPORTANT*****

**THIS MEETING WILL BE HELD AT
2309 Tulare Street
Board Room, 2nd Floor
Fresno, CA 93721-2287
and**

**MEMBER ISLAS WILL PARTICIPATE FROM THE
FOLLOWING TELECONFERENCE LOCATION PURSUANT
TO GOVERNMENT CODE SECTION 54953(b)(2),
all action taken during this teleconferenced meeting shall be by roll
call vote.**

**Raleigh Marriott Crabtree Valley
4500 Marriott Drive
Room 283
Raleigh, North Carolina 27612
Open to the Public**

PLEASE NOTE: PARKING WILL BE AVAILABLE AFTER 5:00 P.M. AT THE “N” STREET PARKING PAVILION LOCATED ON THE SOUTHEAST CORNER OF TULARE AND “N” STREETS – ENTRANCE IS ON “N” STREET. Also, the City of Fresno will not enforce the street meters in this area **after 6:00 p.m.**, Monday through Saturday.

PLEASE NOTE: *DESIGNATED TIMES FOR CONFERENCE/DISCUSSION ITEMS ARE ESTIMATES

In compliance with the Americans with Disabilities Act, those requiring special assistance to access the Board meeting room, to access written documents being discussed at the Board meeting, or to otherwise participate at Board meetings, please contact the Board President or Board Office at 457-3938. Notification at least 48 hours prior to the meeting will enable the District to make reasonable arrangements to ensure accessibility to the Board meeting and to provide any required accommodations, auxiliary aids or services.

Any member of the public who wishes to address the Board shall submit a speaker card specifying the item he/she wishes to address. The card must be submitted before the Board president announces the specific agenda item.

Public materials are available for public inspection at the Fresno Unified School District Education Center, 2309 Tulare Street, 2nd Floor or visit our website at: www.fresnounified.org/board

TRANSLATION SERVICES: Available in Spanish and Hmong in the Board Room upon request.

***4:30 P.M.**

CALL Meeting to Order

OPPORTUNITY for Public Comment on Closed Session Agenda Items

RECESS to Cabinet Room for Closed Session to discuss the following:

1. Student Expulsions pursuant to Education Code Section 35146.
2. Conference with Labor Negotiator - (Government Code Section 54957.6); FUSD Negotiator(s): Paul Idsvoog; Employee Organizations(s): FTA, CSEA, Chapter 125, CSEA, Chapter 143, SEIU, Local 521, FASTA/SEIU, Local 521/CTW, CLC, Fresno Unified Building & Construction Trades/FTA; International Association of Machinists and Aerospace Workers (IAMAW), Unrepresented Employees: All Management, Confidential, and Supervisory Employees.
3. Public Employee Discipline/Dismissal/Release/Reassignment/Resignation.
4. Public Employment/Appointment - (Government Code Section 54957).
 - a. *Assistant Superintendent*
5. Conference with Legal Counsel – Anticipated/Pending/Threatened Litigation (Government Code Section 54956.9(d)(2)).
 - a. *Potential Case: One (1)*
 - b. *Laura Voelkel-Wolfe v. Fresno Unified Workers' Compensation Fresno Unified Case No. 2004-0599*
6. Conference with Legal Counsel – Existing Litigation (Government Code Section 54956.9(d)(1)).
 - a. *Risk Management Litigation Report*
7. Conference with Legal Counsel – Anticipated Litigation/Deciding whether to initiate litigation (Government Code Section 54956.9(d)(4)).
 - a. *Potential Case: One (1)*

7:15 P.M., RECONVENE and report action taken during Closed Session, if any.

PLEDGE OF ALLEGIANCE

Rata School Nurse, Patricia Atitya will lead the flag salute.

HEAR Reports from Student Board Representatives

An opportunity is provided to hear comments/reports from Student Board Representatives from Sunnyside High School.

HEAR Report from Superintendent

OPPORTUNITY for Public Comment on Consent Agenda Items

ALL CONSENT AGENDA items are considered to be routine by the Board of Education and will be enacted by one motion. There will be no separate discussion of items unless a Board member so requests, in which event, the item(s) will be considered following approval of the Consent Agenda.

A. CONSENT AGENDA

A-1, APPROVE Personnel List

Included in the Board binders is the Personnel List, Appendix A, as submitted. The Superintendent recommends approval. Contact person: Paul Idsvoog, telephone 457-3548.

A-2, ADOPT Findings of Fact and Recommendations of District Administrative Board

The Board of Education received and considered the Findings of Fact and Recommendations of District Administrative Panels resulting from hearings on expulsion and readmittance cases conducted during the period since the April 10, 2019 Regular Board Meeting. The Superintendent recommends adoption. Contact person: Kim Mecum, telephone 457-3731.

A-3, APPROVE Minutes from Prior Meeting

Included in the Board binders are the draft minutes for the March 20, 2019 and April 3, 2019 Regular Board Meetings. The Superintendent recommends approval. Contact person: Robert G. Nelson, telephone 457-3884.

A-4, ADOPT Resolution Proclaiming April 2019 as Remembrance of the Existence of the Armenian Genocide

ADOPT Resolution Proclaiming April 2019 as Remembrance of the Existence of the Armenian Genocide Included in the Board binders is a resolution proclaiming the month of April 2019 as Remembrance of the Existence of the Armenian Genocide – as remembrance of those forever affected by the Armenian Genocide – and urges our schools and individual citizens to never forget these crimes against humanity. The Superintendent recommends adoption. Contact person: David Chavez, telephone 457-3566.

A-5, ADOPT Resolution Proclaiming May 8, 2019 as National School Nurse Day

Included in the Board binders is a Proclamation declaring May 8, 2019 as National School Nurse Day. National School Nurse Day is a time to celebrate the nursing profession and the specialty of school nursing. The Board of Education of Fresno Unified officially declares May 8, 2019 as National School Nurse Day and recognizes the unique contributions of our school nurses to the health and well-being of our children. The Superintendent recommends adoption. Contact person: David Chavez, telephone 457-3566.

A-6, ADOPT Resolution Proclaiming May 2019 Better Hearing and Speech Month

Included in the Board binders is a resolution recognizing May 2019 as Better Hearing and Speech Month. Fresno Unified School District urges all schools and individual citizens to participate in Better Hearing and Speech Month in order to become better educated and join together in raising awareness and knowledge of communication disorders. The Superintendent recommends adoption. Fiscal impact: There is no fiscal impact to the district. Contact person Kim Mecum, telephone 457-3731.

A. CONSENT AGENDA – *continued*

A-7, APPROVE Independent Contractor Services Agreement with the Regents of the University of California, Merced

Included in the Board binders is an Independent Contract Services Agreement with the Regents of the University of California (UC), Merced, for the purpose of attending the Willie Lewis Brown, Jr. Youth Academy Leadership Camp in conjunction with the Fresno Unified School District African American Student Leadership Academy at UC Merced June 10-14, 2019. The camp is designed to provide African American students exposure to the UC system, and to provide leadership opportunities, academic skill development, and experiential learning opportunities at Yosemite National Park. All 17 middle schools will have students in attendance. The Superintendent recommends approval. Fiscal impact: Sufficient funds are available in the Goal 2 annual budget. Total cost not to exceed \$30,000. Contact person: Kim Mecum, telephone 457-3731.

A-8, APPROVE Award of Bid 19-29, McLane High School Installation of Stadium Turf and Infrastructure for Portable Restrooms

Included in the Board Binders is information on Bid 19-29, to install district-supplied synthetic turf to replace the natural turf at McLane High School Stadium. The project also includes infrastructure and utilities hook-up for two new district supplied portable restrooms for the Stadium, for improved accessibility. Pending approval of this recommendation, the district will purchase \$787,500 in synthetic turf (AstroTurf) utilizing a Board-approved piggyback contract.

Two portable accessible restroom buildings have also been purchased, at a cost of \$250,000, utilizing a Board-approved piggyback contract. Therefore, the total cost of the Stadium improvements project is \$2,764,784. McLane Stadium was selected to pilot synthetic turf due to the school's inability to accommodate all activities on the minimal upper field space.

Staff recommends award for installation only to the lowest responsive, responsible bidder:

Todd D. Phillips, Inc. dba Buildings Unlimited (Madera, California) \$1,727,284

The Superintendent recommends approval. Fiscal impact: The recommended bid award of \$1,727,284 is available in the Measure X Fund. The total Measure X project cost, including the synthetic turf and portable accessible restrooms, is \$2,764,784. Contact person, Karin Temple, telephone 457-3134.

A-9, APPROVE Award of Bid 19-31 Sections A-C, Lighting Improvements at Various Schools - Phase 2 (Birney, Burroughs, Centennial, Ginsburg, Holland, Jefferson, King, Kings Canyon, Pyle, Turner and Vinland)

Included in the Board binders is information on Bid 19-31 Sections A, B and C to retrofit existing lighting fixtures with district supplied energy efficient LED lighting fixtures and

A. CONSENT AGENDA – *continued*

controls at eleven schools: Birney, Burroughs, Centennial, Ginsburg, Holland, Jefferson, King, Kings Canyon, Pyle, Turner and Vinland. This is the second of three phases of energy efficiency projects utilizing funding from the California Clean Energy Jobs Act (Proposition 39).

Staff recommends award for installation only to the lowest responsive, responsible bidders:

Section A	Vitality Construction Inc.	(Sacramento, CA)	\$130,755
Section B	Clear Blue Energy Corp.	(San Diego, CA)	\$215,975
Section C	Clear Blue Energy Corp.	(San Diego, CA)	\$139,650

The Superintendent recommends approval. Fiscal impact: The recommended bid award of \$486,380 is available in the California Clean Energy Jobs Act (Proposition 39) budget. The total project cost, including the lighting materials previously purchased, is \$1,528,807. Contact person: Karin Temple, telephone 457-3134.

A-10, Approve Award of Bid 19-32 Phase 3B, Installation of District Video Security System at Elementary Schools (Calwa, Fremont, Holland, Lane, Mayfair, Norseman, Powers-Ginsburg and Storey)

Included in the Board Binders is information on Bid 19-32 Phase 3B, to provide high definition video security systems at eight elementary schools: Calwa, Fremont, Holland, Lane, Mayfair, Norseman, Powers-Ginsburg and Storey. The project includes installing low voltage wiring and electrical power connections and mounting district supplied video security equipment. This is the sixth of eight phases of the project to provide enhanced security systems to all elementary schools. All phases are planned to be completed by the start of school in August 2019.

Staff recommends award for installation only to the lowest responsive, responsible bidder:

Sections 1 & 2: Kertel Communications, Inc. dba Sebastian (Fresno, California)
\$307,355

The Superintendent recommends approval. Fiscal impact: The recommended bid award of \$307,355 is available in the Measure X Fund. The total Measure X project cost, including the security system materials previously purchased, is \$409,572. Contact person: Karin Temple, telephone 457-3134.

A-11, APPROVE Award of Bid 19-34, Fresno High School Gymnasium Thermoplastic PVC Re-Roof

Included in the Board binders is information on Bid 19-34, to install approximately 15,000 square feet of thermoplastic PVC (polyvinyl chloride) single-ply roofing material to the

A. CONSENT AGENDA – *continued*

existing built-up gym roof. PVC is a tough, lightweight material that is durable, fairly rigid and versatile. This roofing project was contemplated in the previous scope of work on the roof in Fall 2018, and completes the gym roof renovation. Staff recommends award to the lowest responsive, responsible bidder:

Midstate Sheetmetal, Inc. (Bakersfield, California) \$106,500

The Superintendent recommends approval. Fiscal impact: \$106,500 is available in the Measure X Fund. Contact person: Karin Temple, telephone 457-3134.

A-12, APPROVE Award of Bid 19-36, Fresno High School Locker Room and Weight Room HVAC Improvements

Included in the Board binders is information on Bid 19-36, to provide air conditioning in the coach's office and former wrestling room (now weight room) at Fresno High, and new make-up air units to replace aging equipment in the girls and boys locker rooms. The improvements will provide a more comfortable environment and increase energy efficiency. This work complements the previous project to provide air conditioning to the Fresno High gym. Staff recommends award to the lowest responsive, responsible bidder:

American Incorporated (Visalia, California) \$767,700

The Superintendent recommends approval. Fiscal impact: \$767,700 is available in the Measure X Fund. Contact person: Karin Temple, telephone 457-3134.

A-13, APPROVE Award of Bid 19-37 Section A and B, Public Address Equipment and Video Security Equipment

Included in the Board binders is information on Bid 19-37, to establish fixed unit pricing for equipment to be installed to improve public address systems (Section A, CareHawk) and video security systems (Section B, Clinton) at district schools. The CareHawk public address system enhances safety and security by enabling operation of public address, intercom, bell scheduling and district-wide emergency alert notifications from a school, district dispatch center, or other remote stations. Systems are updated as projects are identified based on a combination of factors including age of equipment, projected imminent failure, work order history, inability to obtain replacement parts, and planned modernization projects. The bid is for one-year term price agreements, with two one-year renewals. Staff recommends award to the lowest responsive, responsible bidders:

Section A (CareHawk): Cable Links Construction (Fresno, CA) \$115,961 (annual est.)
Section B (Clinton): Surveillance Systems Inc. (Rocklin, CA) \$100,343 (annual est.)

The Superintendent recommends approval. Fiscal impact: \$216,304 is available in the Measure X Fund. Contact person: Karin Temple, telephone 457-3134.

A. CONSENT AGENDA – *continued*

A-14, APPROVE Appointments to Citizens’ Bond Oversight Committee

It is recommended the Board approve the appointment of two members to the Citizens’ Bond Oversight Committee (CBOC) nominated by Board Member Major Slatic: Mike Karbassi and Michael Kelly. The role of the CBOC, which meets quarterly, is to ensure bond proceeds are expended only for the purposes set forth in the Measure Q and Measure X ballot measures. The CBOC nominees live within Fresno Unified and neither is a vendor, contractor, consultant, employee or official of the district. The Superintendent recommends approval. Fiscal impact: There is no fiscal impact to the district. Contact person: Karin Temple, telephone 457-3134.

A-15, RATIFY Change Orders for the Projects Listed Below

Included in the Board binders is information on Change Orders for the following projects:

Bid 18-24 Sections D-E, Kratt Elementary School and Tenaya Middle School Water Conservation and Irrigation Improvements

Change Order(s) presented for ratification: \$ 38,009

Bid 18-38 Sections B-C, Columbia, Kirk, Robinson and Thomas Elementary Schools Portable Classroom Relocation and Infrastructure

Change Order(s) presented for ratification: \$ 26,527

Bid 18-41, Section B, Roosevelt High School Athletic Field Improvements

Change order(s) presented for ratification: \$ 132,724

Bid 18-42, McLane High School Quad Improvements

Change Order(s) presented for ratification: \$ 14,583

The Superintendent recommends ratification. Fiscal impact: \$185,316 is available in the Measure X Fund for Bids 18-24, 18-41 and 18-42; \$26,527 is available in the General Fund for Bid 18-38. Contact person: Karin Temple, telephone 457-3134.

A-16, RATIFY the Filing of Notices of Completion

Included in the Board binders are Notices of Completion for the following projects, which have been completed according to plans and specifications.

Bid 18-24 Sections D-E, Water Conservation and Irrigation Improvements at Kratt Elementary School and Tenaya Middle School

Bid 18-38 Sections B-C, Columbia, Kirk, Robinson and Thomas Elementary Schools Portable Classroom Relocation and Infrastructure

The Superintendent recommends ratification. Fiscal impact: Retention funds are

A. CONSENT AGENDA – *continued*

released in accordance with contract terms and California statutes. Contact person: Karin Temple, telephone 457-3134.

**END OF CONSENT AGENDA
(ROLL CALL VOTE)**

UNSCHEDULED ORAL COMMUNICATIONS

Individuals who wish to address the Board on topics within the Board’s subject matter jurisdiction, but **not** listed on this agenda may do so at this time. If you wish to address the Board on a specific item that is listed on the agenda, you should do so when that specific item is called.

While all time limitations are at the discretion of the Board President, generally members of the public will be limited to a maximum of three (3) minutes per speaker for a total of thirty (30) minutes of public comment as designated on this agenda. Any individual who has not had an opportunity to address the Board during this initial thirty (30) minute period may do so at the end of the meeting after the Board has addressed all remaining items on this agenda. Without taking action and only as expressly permitted by Board Bylaw 9323, Board members may ask questions, make brief announcements, or provide a brief response to statements presented by the public about topics raised in unscheduled oral communications. Board members must be recognized by the President in order to speak and will generally be limited to no more than one (1) minute each for this purpose. The Board President shall have the discretion to further limit Board members’ opportunity to speak on topics raised in unscheduled oral communications to ensure the orderly and efficient conduct of District business.

Members of the public with questions on school district issues may submit them in writing. The Board will automatically refer to the Superintendent any formal requests that are brought before them at this time. The appropriate staff member will furnish answers to questions.

B. CONFERENCE/DISCUSSION AGENDA

7:45 P.M.

B-17, PRESENT and DISCUSS the 2019/20 Strategic Budget Development

The 2019/20 Governor’s Proposed Budget was released on January 10, 2019. The Board of Education has discussed the Governor’s proposal and the potential impacts on Fresno Unified, as well as the strategic budget development process, at the following Board of Education meetings:

- January 16, 2019
- January 30, 2019
- February 13, 2019
- February 27, 2019
- March 6, 2019
- March 20, 2019
- April 3, 2019
- April 10, 2019

B. CONFERENCE/DISCUSSION AGENDA – *continued*

On May 1, 2019, staff and the Board will continue budget development discussions. Fiscal impact: Not available at this time. Contact person: Ruth F. Quinto, telephone 457-6226.

8:15 P.M.

B-18, CONDUCT Public Hearing Regarding Preliminary Environmental Assessment for the District-owned Parcel located at East Church Avenue and South Oranewood Drive in Fresno, California, Related to the Recommended Relocation of the Phoenix Secondary Academy Campus

The Board is requested to conduct a public hearing regarding the draft Preliminary Environmental Assessment (PEA) related to the district-owned 5-acre parcel at the southeast corner of Church Avenue and Oranewood Drive (east of Peach Avenue), the Executive Summary of which is included in the Board binders. This is the recommended location for the new master-planned modular campus for Phoenix Secondary Academy, the district's secondary community day program. Conducting the public hearing does not commit the district to constructing a project at the site, but is required should a project be implemented in the future, pending Board approval. Education Code requires the district to make the PEA available for public review, conduct a public hearing, and accept the PEA before the State Department of Toxic Substances Control (DTSC) makes a final determination on the PEA. Fiscal impact: The public hearing has no fiscal impact. Contact person: Karin Temple, telephone 457-3134.

8:20 P.M.

B-19, CONDUCT Public Hearing Regarding Preliminary Environmental Assessment for the District-owned Parcel located at East Ventura Avenue and South 10th Street in Fresno, California, Related to the Potential Educational and Administrative Site

The Board is requested to conduct a public hearing regarding the draft Preliminary Environmental Assessment (PEA) related to the district-owned 12.8-acre parcel at the southwest corner of Ventura Avenue and 10th Street, the Executive Summary of which is included in the Board binders. The site has been identified for a new campus to house multiple programs and administrative functions. Conducting the public hearing does not commit the district to constructing a project at the site, but is required should a project be implemented in the future, pending Board approval. Education Code requires the district to make the PEA available for public review, conduct a public hearing, and accept the PEA before the State Department of Toxic Substances Control (DTSC) makes a final determination on the PEA. Fiscal impact: The public hearing has no fiscal impact. Contact person: Karin Temple, telephone 457-3134.

C. RECEIVE INFORMATION & REPORTS

C-20, RECEIVE Proposed Revisions for Board Bylaws 9000, 9224 (New), 9324 and 9323.2
Included in the Board binders are proposed revisions for the following four Board Bylaws (BB):

- BB 9000 Role of The Board (Powers and Responsibilities)
- (NEW) BB 9224 Oath or Affirmation
- BB 9324 Minutes and Recordings
- BB 9323.2 Actions by The Board

These revisions meet the legal mandates recommended by the California School Boards Association. Staff will bring these bylaws for discussion and approval at a future Board meeting. Fiscal impact: There is no fiscal impact to the district. Contact person: David Chavez, telephone 457-3566.

BOARD/SUPERINTENDENT COMMUNICATION

D. ADJOURNMENT

NEXT REGULAR MEETING
WEDNESDAY, MAY 15, 2019

**FRESNO UNIFIED SCHOOL DISTRICT
BOARD OF EDUCATION**

AGENDA ITEM B-18

AGENDA SECTION <i>(Check Box Below)</i>			
A CONSENT	B DISCUSSION	C RECEIVE	RECOGNIZE/ PRESENT
	X		

BOARD MEETING DATE:
May 1, 2019

ACTION REQUESTED: <i>(Adopt, Approve, Ratify, Discuss, Receive, etc.)</i>	Discuss
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TITLE AND SUBJECT: Conduct Public Hearing Regarding Preliminary Environmental Assessment for the District-owned Parcel located at East Church Avenue and South Orangetown Drive in Fresno, California, Related to the Recommended Relocation of the Phoenix Secondary Academy Campus

DESCRIPTION/DISCUSSION: The Board is requested to conduct a public hearing regarding the draft Preliminary Environmental Assessment (PEA) related to the district-owned 5-acre parcel at the southeast corner of Church Avenue and Orangetown Drive (east of Peach Avenue), the Executive Summary of which is included in the Board binders. This is the recommended location for the new master-planned modular campus for Phoenix Secondary Academy, the district's secondary community day program. Phoenix Academy is currently housed at an interim portable campus located at 5090 E. Church. Conducting the public hearing does not commit the district to constructing a project at the site, but is required should a project be implemented in the future, pending Board approval.

The following is an excerpt from the Executive Summary:

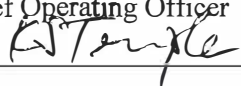

Surface soil samples were collected at twelve locations across the site. The soil samples were submitted to an environmental laboratory for analysis of arsenic and organochlorine pesticides (OCPs), which may have been used in previous farming operations at the site. None of the soil samples were found to contain elevated concentrations of arsenic or OCPs. The PEA Report recommends DTSC approve the site for school occupancy with no further action required.

Education Code requires the district to make the PEA Report available for public review, conduct a public hearing, and accept the PEA Report before the California Department of Toxic Substances Control (DTSC) makes a final determination on the PEA. The PEA Report was submitted to DTSC for review on November 13, 2018, and made available for a 30-day public comment period beginning March 22, 2019. A notice was published in the Fresno Bee to notify the public of the public comment period and hearing. At the conclusion of the public comment period, the PEA will be revised as necessary to address public and DTSC comments, and the final PEA Report will be submitted to DTSC for approval.

Board action is not requested at this time. The complete draft PEA Report is available in the Board Office and is incorporated by reference into this report and the meeting record.

**FRESNO UNIFIED SCHOOL DISTRICT
BOARD OF EDUCATION**

FINANCIAL SUMMARY: The public hearing has no fiscal impact.

PREPARED BY: Alex Belanger, Assistant Superintendent, Facilities Mgmt. & Planning	DIVISION: Operational Services PHONE: (559) 457-3134
DATA REVIEWED BY:	
CABINET LEVEL APPROVAL: Karin Temple, Chief Operating Officer (Signature Required) 	SUPERINTENDENT APPROVAL: 

EXECUTIVE SUMMARY

Preliminary Environmental Assessment Report

Potential Church/Orangewood School Site

A contractor for Fresno Unified School District is performing a Preliminary Environmental Assessment (PEA) of the potential school site, which consists of approximately five acres at the southwest corner of E. Church Avenue and S. Orangewood Drive. The PEA is being performed under the oversight of the California Department of Toxic Substances Control (DTSC) to evaluate whether hazardous materials are present at the site that would pose an unacceptable health risk to future students or staff.

Prior to field work commencing, a field work notice was mailed to nearby residents on October 8, 2018. The field work was performed on October 23, 2018. Surface soil samples were collected at twelve locations across the site. The soil samples were submitted to an environmental laboratory for analysis of arsenic and organochlorine pesticides (OCPs), which may have been used in previous farming operations at the site. None of the soil samples were found to contain elevated concentrations of arsenic or OCPs. The PEA Report recommends DTSC approve the site for school occupancy with no further action required.

The PEA Report was submitted to DTSC for review on November 13, 2018, and was made available for a 30-day public comment period beginning on March 22, 2019. In accordance with California Education Code section 17213.1(a)(6)(A), Fresno Unified will conduct a public hearing at the Board of Education meeting on May 1, 2019, to receive public comments (verbal and written). A notice was published in the Fresno Bee to notify the public of the public comment period and hearing. After the public comment period is concluded, the PEA Report will be revised as necessary to address public and DTSC comments, and the final PEA Report will be submitted to DTSC for approval.

Agenda Item: B-18



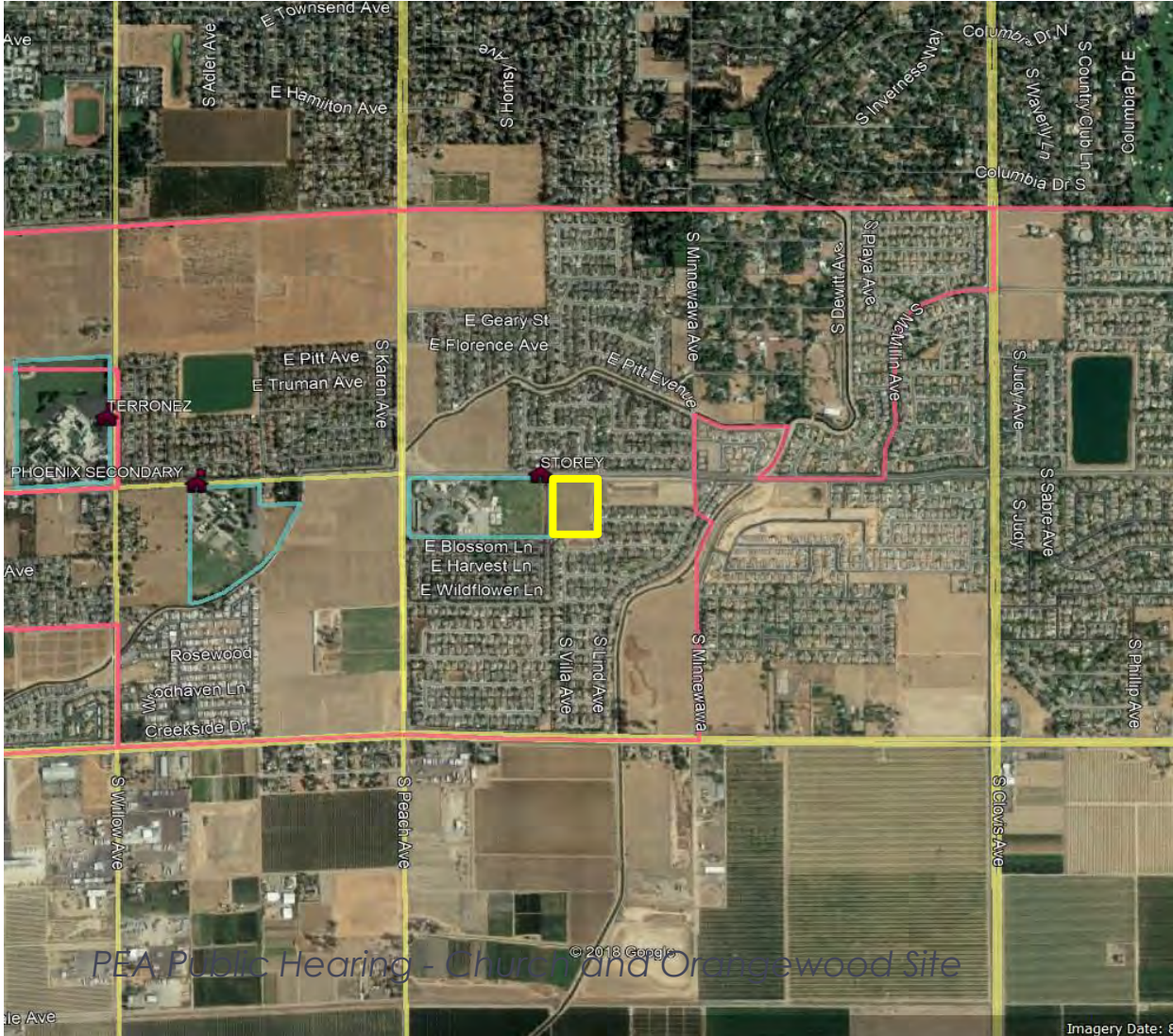
**Public Hearing:
Preliminary Environmental
Assessment for District-owned
Property at Church/Orangewood**

May 1, 2019

Preliminary Environmental Assessment (PEA)

- Results of soils investigations to ensure site meets State standards to locate educational facilities at the site
- Final determination by State Department of Toxic Substances Control after public review period and any PEA revisions
- Public hearing is required for eventual California Department of Education approval of a project at the site
 - District is not committing to a project at the site
 - No Board action is recommended at this time
- Church and Oranewood site is proposed location for Phoenix Secondary Academy master-planned modular campus

Church and Orangewood Site



PEA Public Hearing - Church and Orangewood Site

5/1/2019

Public Hearing

- Board is requested to conduct Public Hearing regarding Preliminary Environmental Assessment for district-owned parcel at E. Church Ave. and S. Oranewood Dr.
 - ▣ PEA Executive Summary in Board binders
 - ▣ Complete Draft PEA Report available in Board Office
- No Board action is recommended at this time
- Recommendation for Board action on the Phoenix Secondary Academy project is targeted for June 2019

**FRESNO UNIFIED SCHOOL DISTRICT
BOARD OF EDUCATION**

AGENDA SECTION <i>(Check Box Below)</i>			
A	B	C	RECOGNIZE/ PRESENT
CONSENT	DISCUSSION	RECEIVE	
	X		

AGENDA ITEM B-19

BOARD MEETING DATE:
May 1, 2019

ACTION REQUESTED: <i>(Adopt, Approve, Ratify, Discuss, Receive, etc.)</i>	Discuss
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TITLE AND SUBJECT: Conduct Public Hearing Regarding Preliminary Environmental Assessment for the District-owned Parcel located at East Ventura Avenue and South 10th Street in Fresno, California, Related to the Potential Educational and Administrative Site

DESCRIPTION/DISCUSSION: The Board is requested to conduct a public hearing regarding the draft Preliminary Environmental Assessment (PEA) related to the district-owned 12.8-acre parcel at the southwest corner of Ventura Avenue and 10th Street, the Executive Summary of which is included in the Board binders. The site has been identified for a new campus to house multiple programs and administrative functions, discussed by the Board during approval of the Sale Agreement, and Resolution 18-01, on October 17, 2018. Conducting the public hearing does not commit the district to constructing a project at the site, but is required should a project be implemented in the future, pending Board approval.

The following is an excerpt from the Executive Summary:

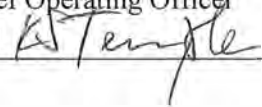

Surface soil samples were collected at over 120 locations throughout the site. The soil samples were submitted to an environmental laboratory for analysis of arsenic, lead, organochlorine pesticides (OCPs), and polychlorinated biphenyls (PCBs) which may have been used on the site. The soil samples did indicate that arsenic, lead, OCPs, and PCBs were present in certain areas. Further “step out, step down” soil sampling has been utilized to determine the lateral and vertical extents of soil impacted with elevated concentrations of these chemicals. Those results have been incorporated into the Draft PEA report for review by DTSC.

Education Code requires the district to make the PEA Report available for public review, conduct a public hearing, and accept the PEA Report before the California Department of Toxic Substances Control (DTSC) makes a final determination on the PEA. The PEA Report was submitted to DTSC for review and has been made available for a 30-day public comment period beginning March 22, 2019. A notice was published in the Fresno Bee on March 10, 2019, to notify the public of the public comment period and hearing. At the conclusion of the public comment period, the PEA will be revised as necessary to address public and DTSC comments, and the final PEA Report will be submitted to DTSC for approval.

No Board action is requested at this time. The complete draft PEA Report is available in the Board Office and is incorporated by reference into this report and the meeting record.

**FRESNO UNIFIED SCHOOL DISTRICT
BOARD OF EDUCATION**

FINANCIAL SUMMARY: The public hearing has no fiscal impact.

PREPARED BY: Alex Belanger, Assistant Superintendent, Facilities Mgmt. & Planning	DIVISION: Operational Services PHONE: (559) 457-3134
DATA REVIEWED BY:	
CABINET LEVEL APPROVAL: Karin Temple, Chief Operating Officer (Signature Required) 	SUPERINTENDENT APPROVAL: 

EXECUTIVE SUMMARY

Preliminary Environmental Assessment Report

Potential Educational and Administrative Site at Ventura and 10th Streets

An environmental engineering firm, working for Fresno Unified School District is performing a Preliminary Environmental Assessment (PEA) of the potential school site, which consists of approximately 12.8 acres, located at Ventura and 10th Streets.

The PEA is being performed under the oversight of the California Department of Toxic Substances Control (DTSC) to evaluate whether hazardous materials are present at the site that would pose an unacceptable health risk to future students and staff.

Prior to field work commencing, a field work notice was mailed to nearby residents on November 7, 2018. The field work was performed starting on November 26, 2018. Surface soil samples were collected at over 120 locations throughout the site. The soil samples were submitted to an environmental laboratory for analysis of arsenic, lead, organochlorine pesticides (OCPs), and polychlorinated biphenyls (PCBs) which may have been used on the site. The soil samples did indicate that arsenic, lead, OCPs, and PCBs were present in certain areas. Further “step out, step down” soil sampling has been utilized to determine the lateral and vertical extents of soil impacted with elevated concentrations of these chemicals. Those results have been incorporated into the Draft PEA report for review by DTSC.

The PEA report was submitted to DTSC, and was made available for a 30-day public comment period beginning on March 22, 2019. In accordance with California Education Code section 1713.1(a)(6)(A), Fresno Unified School District will conduct a public hearing at the Board of Education meeting on May 1, 2019, to receive public comment (verbal and written). A notice was published in the Fresno Bee on March 10, 2019 to notify the public of the comment period and hearing. After the public comment period is concluded, the PEA report will be revised as necessary to address public and DTSC comments, and the final PEA report will be submitted to DTSC for approval.

Next steps, following review and approval of the PEA by DTSC, will be the development of a Removal Action Workplan (RAW) to define the work necessary to remove contaminated soils from the site. There will be a second opportunity for public input in a 30-day public review period prior to the approval of the RAW.

Agenda Item: B-19



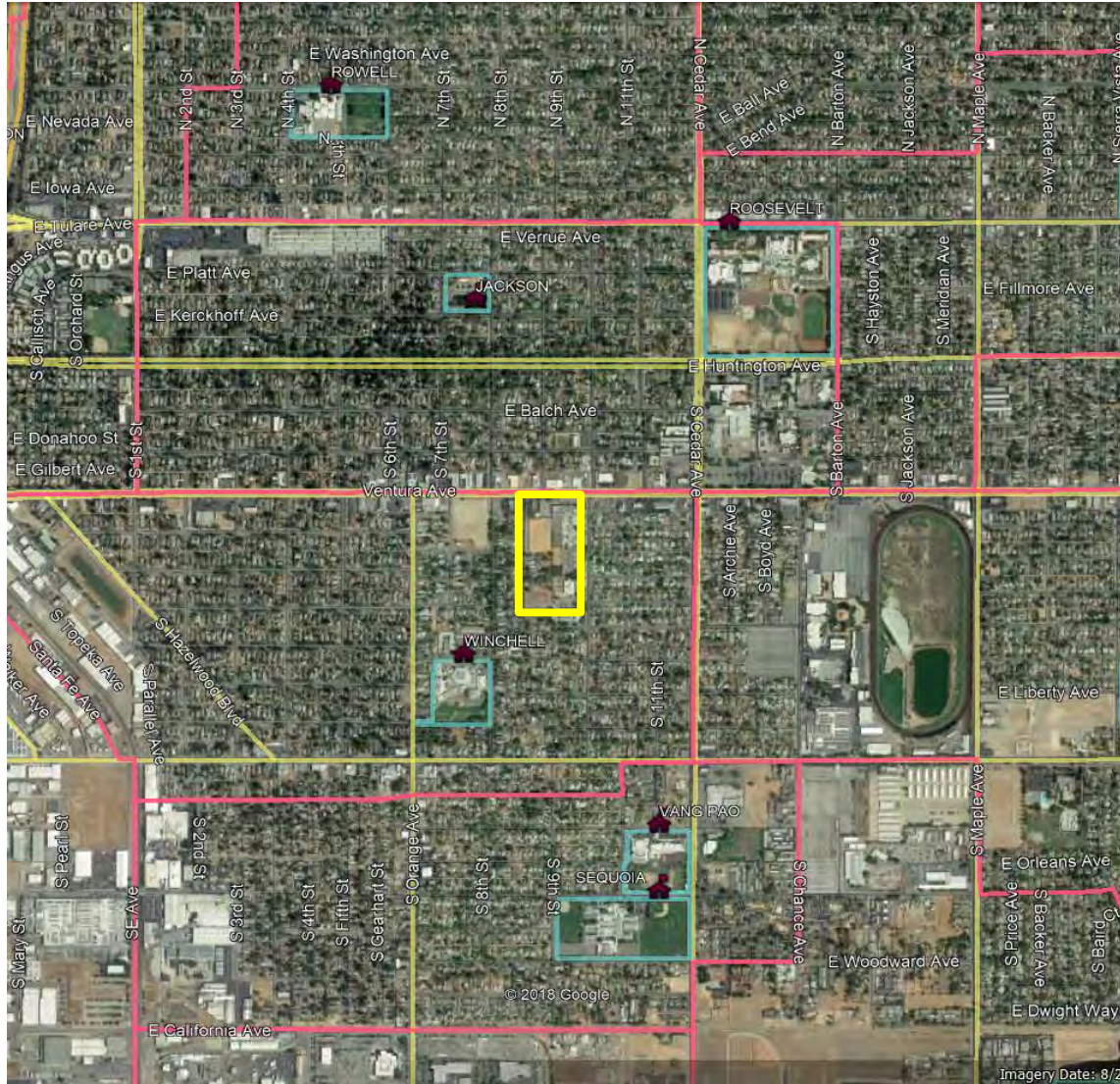
**Public Hearing:
Preliminary Environmental
Assessment for District-owned
Property at Ventura/10th**

May 1, 2019

Preliminary Environmental Assessment (PEA)

- Results of soils investigations to ensure site meets State standards to locate educational facilities at the site
- Final determination by State Department of Toxic Substances Control after public review period and any PEA revisions
- Public hearing is required for eventual California Department of Education approval of a project at the site
 - District is not committing to a project at the site
 - No Board action is recommended at this time
- Ventura and 10th site is proposed location for future specialty/alternative education facilities and administrative offices

Ventura and 10th Site



Public Hearing

- Board is requested to conduct Public Hearing regarding Preliminary Environmental Assessment for district-owned parcel at E. Ventura Ave. and S. 10th St.
 - ▣ PEA Executive Summary in Board binders
 - ▣ Complete Draft PEA Report available in Board Office
- No Board action is recommended at this time
- Recommendation for Board action on initial demolition work at the site is targeted for May 29, 2019

**Public Hearing on Preliminary Environmental Assessment (PEA)--Orangewood and Church
May 1, 2019 Fresno Unified School District Board of Education Meeting**

Public Comments:

Mr. Venancio Gaona-

Good evening Madam President and Members of the Board and Dr. Nelson. I'll try to be brief. On behalf of the Latino Educational Issues Roundtable, we encourage the Board to conduct a preliminary environmental assessment and once it gets approved by the state we hope that you will initiate the construction of the new elementary school-Juan Felipe Herrera School for the following reasons: Number one: a promise was made in a mailer where you listed the southeast school. Number two: capacity. The Sunnyside region has ten elementary schools with the highest enrollment of seven hundred and fifty students per school in the district. Three: provide relief--Storey Elementary currently has one thousand four hundred forty students plus. This is above the highest average of seven hundred and fifty for the District. Four: Storey has four lunch periods, has had four lunch periods, for the last ten years that we know of; this is not an ideal learning or teaching environment and I know I've heard you this evening how concerned you are about learning and teaching environment and all the needs that the students need. Number 5: construction time-a new school, according to sources from the school district here, told me that it would take, or told us it would take, up to five years to build a new school. Perhaps it should take less, I don't know that. Maybe I should go into the construction business. Number 6: the impact of a new home, new home construction in the area-there are at least five new and proposed residential building sites in the site area. This means that there will be substantial students in southeast Fresno and you already have across the street fourteen forty. We urge the Board to approve the building and fund the school to the level recommended by the Superintendent just like you did the Bud Gaston school you funded it at this full amount. Do no less. Thank you very much.

Mr. Leonard Carrillo-

Good evening Superintendent Nelson, Board of Education. I am Leonard Carrillo and I'm speaking on behalf of AMAE, Association of Mexican American Educators and we too are following this. We would like to see, we're glad to see, that the impact study is positive and that we're looking forward to Phoenix School being built at that new area and it would clear the way for, of course, the Herrera School. And so we are, we're commending you for moving forward with this and we'd like to encourage you to continue so that we can. Phoenix deserves a school, it's time. A nice facility and this is a good opportunity. Two birds with one stone, win-win situation where Phoenix gets their new school and also Juan Felipe Herrera School can be built. So we would encourage you. We're watching this and it's dear to our heart and we want to see it happen. Thank you.



Jared Blumenfeld
Secretary for
Environmental Protection



Department of Toxic Substances Control

Meredith Williams, Ph.D.
Acting Director
8800 Cal Center Drive
Sacramento, California 95826-3200



Gavin Newsom
Governor

May 17, 2019

Mr. William Belanger
Assistant Superintendent
Facilities Management and Planning
Fresno Unified School District
4600 North Brawley Avenue
Fresno, California 93722

PRELIMINARY ENVIRONMENTAL ASSESSMENT REPORT – NO FURTHER ACTION DETERMINATION, FRESNO UNIFIED SCHOOL DISTRICT, CHURCH AND ORANGEWOOD PROPOSED SCHOOL SITE, SOUTHWEST CORNER OF EAST CHURCH AVENUE AND SOUTH ORANGEWOOD DRIVE, FRESNO, FRESNO COUNTY (PROJECT CODE 104792)

Dear Mr. Belanger:

On May 16, 2019, AECOM Technical Services, Inc. (AECOM), on behalf of the Fresno Unified School District (District), notified the Department of Toxic Substances Control (DTSC) via electronic mail that it had complied with all public review and comment requirements for the Preliminary Environmental Assessment Report (PEA Report) pursuant to Education Code section 17213.1(a)(6)(A). The District made the PEA Report available for public review and comment from March 22, 2019 through May 6, 2019, and a public hearing was held on May 1, 2019. No written comments were received during the comment period. Two community members expressed support for the school construction during the public hearing but did not address any of the information presented in the PEA Report.

Additionally, DTSC reviewed the PEA Report (AECOM, November 9, 2018) received on November 13, 2018. The PEA Report presents investigation results and conclusions based on a screening level human health risk assessment for the proposed school to be located at the southwest corner of East Church Avenue and South Oranewood Drive, Fresno, Fresno County, California (Site). The District is proposing to construct a new high school which, at capacity, will accommodate 400 students in 17 classrooms. Water and sewer services will be provided by the municipal systems of the City of Fresno.

Mr. William Belanger

May 17, 2019

Page 2

The approximately 5-acre Site is identified by the Fresno County Assessor's Office as Parcel Numbers 481-300-34 (2.85 acres) and 481-300-35 (2.18 acres). The Site is bordered to the north by East Church Avenue followed by residences; to the east by South Villa Avenue, then vacant land to the northeast and residences to the southeast; to the south by East Burns Avenue, then residences; and to the west by Edith B. Storey Elementary School, followed by South Peach Avenue.

According to the PEA Report, the Site was vacant until at least 1946. By 1950, aerial photographs reveal that the Site was being used for agricultural purposes which continued through 1998. The Site is fallow and undeveloped in the 2006 and 2016 aerial photographs and has remained so to present.

The PEA investigated the soil at the Site for arsenic, lead, and organochlorine pesticides (OCPs) from prior agricultural activities that may pose a threat to human health or the environment. The maximum arsenic concentration was 2.7 milligrams per kilogram (mg/kg) which is below the background concentration for the Site (5.7 mg/kg). The maximum lead concentration was 6.6 mg/kg which is significantly below the DTSC modified screening level of 80 mg/kg. OCPs were not detected in any of the soil samples that were analyzed. The PEA Report recommends that no further action is needed before the school occupancy occurs.

Based on review of the PEA Report, neither a release of hazardous material nor the presence of a naturally occurring hazardous substance which would pose a threat to public health or the environment under unrestricted land use was indicated at the Site. Therefore, DTSC concurs with the conclusion of the PEA Report that no further action for the Site is required and hereby approves the PEA Report.

Pursuant to Education Code section 17213.2, subdivision (e), if a previously unidentified release or threatened release of a hazardous material or the presence of a naturally occurring hazardous substance is discovered anytime during construction at the Site, the District shall cease all construction activities at the Site and notify DTSC. Additional assessment, investigation or cleanup may be required.

Mr. William Belanger
May 17, 2019
Page 3

If you have any questions regarding the project, please contact Ms. Elizabeth Tisdale, DTSC Project Manager at (916) 255-6666 or via e-mail at Elizabeth.Tisdale@dtsc.ca.gov

Sincerely,



Steven Becker, P.G., Chief
Santa Susana Field Laboratory and Northern California Schools Branch
Site Mitigation & Restoration Program
Department of Toxic Substances Control

cc: (via e-mail)

Mr. Fred Yeager
School Facilities Planning Division
California Department of Education
FYeager@cde.ca.gov

Mr. Stuart B. St. Clair, PE
Project Civil Engineer
AECOM Technical Services, Inc.
stuart.stclair@aecom.com

Mr. John Gordon
School Facilities Planning Division
California Department of Education
JGordon@cde.ca.gov

Ms. Farah Esfandiari, MPH, PhD
Staff Toxicologist
DTSC Human and Ecological Risk Office
Farah.Esfandiari@dtsc.ca.gov

Ms. Ruth F. Quinto
Deputy Superintendent/CFO
Fresno Unified School District
Ruthie.Quinto@fresnounified.org

Mr. José Salcedo, PE, Chief
Northern California Schools Unit
DTSC, Sacramento Office
Jose.Salcedo@dtsc.ca.gov

Mr. Rick Andreasen
Project Manager
Fresno Unified School District
Rick.Andreasen@fresnounified.org

Ms. Elizabeth Tisdale
Project Manager
DTSC Northern California Schools Unit
Elizabeth.Tisdale@dtsc.ca.gov



QUALIFICATIONS

JOSUE MONTES | PRINCIPAL GEOTECHNICAL ENGINEER

EDUCATION

BS, Civil Engineering, University of Santo Tomas, Philippines, 1983

LICENSE / REGISTRATION

(CA) Licensed Professional Engineer

#C52610

(CA) Licensed Geotechnical Engineer

#G2904

Mr. Josue Montes has more than 29 years of extensive geotechnical assessment, engineering, construction inspections, and materials testing experience in California with successful leadership roles. His duties include proposal preparation, project management, engineering, and completion of various projects from pre-design to detailed design, materials testing, and construction monitoring. His responsibilities also include business development and project proposal preparation and review, staff mentoring and training, preparation of geotechnical reports, plan details, and geotechnical related specifications. Josue is experienced in managing and performing challenging geotechnical ground investigations, earthwork design and structure foundations, site-specific evaluation of seismic ground motions, and liquefaction and landslide hazard assessments.

RELEVANT PROJECT INVOLVEMENT / EXPERIENCE

AVENUE 7 1/2 BRIDGE, FIREBAUGH

Project Engineer | Mr. Montes served as Project Engineer for the Avenue 7 1/2 Bridge Project. Construction consisted of large diameter deep foundations and of the bridge substructure and superstructure. The bridge consisted of two-span bridge decks, approximately 40 foot wide with pedestrian sidewalks of both sides of the superstructure. His duties included construction inspection and testing of drilling, inspection and monitoring of drilling fluid / slurry, concrete pouring, and post construction testing of concrete poured using gamma-gamma testing.

MAIN STREET BRIDGE, PORTERVILLE

Project Engineer | Mr. Montes served as Project Engineer for the Main Street Bridge Project. The construction consisted of a new 40-foot wide concrete two-span bridge supported on large diameter reinforced concrete piers (CIDH's), on Main Street crossing Tule River. Josue's primary responsibilities included inspections and monitoring of construction of large-diameter CIDH's, its sub-structure (bents and abutments).

CALIFORNIA HIGH SPEED RAIL CP 2-3, LOS ANGELES

Project Manager | Mr. Montes provided Project Management services for the California Speed Rail CP 2-3 Project. The contract includes approximately 65 miles of construction, including embankment, overcrossings / bridges, viaducts, and associated railway / track structures. As the Quality Control laboratory for the project, tasks included materials sampling and testing as required by the project. Sampling of potential borrow sites, prepared embankment subgrade, concrete batching, plate (eV2) testing, nuclear and sand cone testing, lightweight deflectometer tests (LWD), and AASHTO classification of soils. Primary responsibilities include oversight of geotechnical tasks required by the High Speed Rail Contract Package 2-3. Geotechnical tasks included managing laboratory, evaluation of potential borrow sites, haul roads, task coordination, and oversight of field testing (nuke gauge, sand cone, plate test/eV2, LWD or lightweight deflectometer, grounding test).

WESTSIDE PARKWAY, BAKERSFIELD

Senior Engineer | Mr. Montes served as a Senior Engineer for the Westside Parkway Project. The project included a series of overcrossings and undercrossings along the Westside Parkway alignment located north of the Kern River, west of SR-58. His responsibilities included preparation of laboratory tests on collected soils samples from the field exploration, preparation and review of the foundation engineering report for Caltrans review.

DOLLAR GENERAL STORES, INLAND EMPIRE UTILITIES AGENCY

Geotechnical Engineer-of-Record | Mr. Montes provided geotechnical engineer services for the design and construction of Dollar General Stores in various locations throughout California. The project consisted of single-story masonry and steel commercial buildings on shallow foundations. Different locations required careful evaluation of on-site soils and import soils prior to construction. As the geotechnical-engineer-of-record, his responsibilities included preparation of scope of work for field exploration for geotechnical / foundation investigation in various geographical areas and varying geological deposits. Preparation of laboratory testing of subsurface soils and writing and finalizing of geotechnical investigation reports.

KAWEAH DELTA HOSPITAL, VISALIA

Project Engineer | Mr. Montes served as Project Engineer for the Kaweah Delta Hospital Project. Construction included installation of deep foundations and a rigid grade beam system as support of a multi-story concrete-frame building. His responsibilities included oversight of monitoring and inspections of over 100 reinforced drilled concrete piers at various elevations.

CENTURY 21 OFFICE BUILDING, CALIFORNIA

Project Engineer | Mr. Montes services as Project Engineer for the Century 21 Office Building Project. The project consisted primarily of a high rise building supported on driven pre-stressed square concrete piles. The project included subterranean parking levels. and construction included a Pile Driving Analysis (PDA) program prior to pile production. Josue's duties included oversight of PDA and re-evaluation of pile design. Also monitoring and inspection of production pile driving and evaluation post driving of piles.

PERFORMANCE VENUE, LASED (RAMS STADIUM), LOS ANGELES

Geotechnical Engineer-of-Record | Mr. Montes services as Geotechnical Engineer-of-Record for the Performance Venue project located at the RAMS stadium. The project consisted of construction of a multi-use dome facility adjoining the professional football Los Angeles Rams home playing arena. This project also consisted of a multi-level structure, including a performance / concert, multiple shops, and associated structures, supported mainly of mat foundations. Primary responsibilities included review and evaluation of an existing geotechnical report prepared by others, engineering of foundations based on the available data, and preparation of a foundation engineering report for the planned structure. Josue responded to review comments by multiple layers of peer review, and the permitting agency reviews and comments.

MEGAN STEWART | STAFF GEOLOGIST

EDUCATION

BS, Geology, California State University,
Fresno, 2016

LICENSE / REGISTRATION

Geologist-in-Training (CA) - GIT 1031
APNGA Portable Nuclear
Gauge Certification
OSHA 40 Hour HAZWOPER Training

Ms. Megan Stewart has more than four years of geotechnical experience in California. She has extensive knowledge of geotechnical logging and sampling. Her duties include proposal preparation, project coordination, sampling, logging, preparation of geotechnical reports, and liquefaction analysis. In addition, Ms. Stewart is also proficient in geotechnical laboratory testing, construction inspections, and preparing Phase 1 ESA reports.

RELEVANT PROJECT INVOLVEMENT / EXPERIENCE

REPLACEMENT SIDE EFFLUENT CANAL A

Staff Geologist | Ms. Stewart served as Staff Geologist for the Replacement Side Effluent Canal A Project. The scope of services included geotechnical investigation for the design of a new concrete diversion structure which will combine the effluent flow from four final clarifiers, the repair / replacement of 2,400 feet of canal and the connection of the new pipeline with an existing junction structure. Megan's duties consisted of project coordination, geotechnical logging and sampling, as well as geotechnical report preparation.

CARTMILL AVENUE IMPROVEMENTS, TULARE

Staff Geologist | Ms. Stewart provided geotechnical investigation for the widening of Cartmill Avenue between Akers Street and De La Vina Street in Tulare, CA. This project consisted of new asphalt concrete roads with sewer, water, and storm drain installations. Her duties included project coordination, permitting, geotechnical logging and sampling, as well as geotechnical report preparation.

PALM BLUFFS RIVER ACCESS

Staff Geologist | Ms. Stewart served as Staff Geologist for the Palm Bluffs River Access Project. Geotechnical investigation for the construction of a new access road and parking lot, as well as a retaining wall. The new roadway will have a cut-fill section along the face of existing 2H:1V bluff slope, with the fill extending from the new road down to the toe of the existing slope. Megan provided Project Coordination, Geotechnical Logging and Sampling, and Geotechnical Report Preparation services.

WESTLANDS WATER DISTRICT PIPELINE, FRESNO

Staff Geologist | Ms. Stewart served as Staff Geologist for the Westlands Water District Pipeline Project. Geotechnical investigation for the construction of four miles of 36-inch pipeline (two, 2-mile segments), a water storage tank with a capacity of approximately 500,000 gallons, modifying two existing pump stations, and installing two flow control stations and three flow meter stations.

VARIOUS STREET IMPROVEMENTS, TULARE

Staff Geologist | Ms. Stewart served as Staff Geologist for various street improvements located in the City of Tulare. Geotechnical investigation for the reconstruction of the pavement section of: Cherry Street from Tulare Avenue to Merrit Avenue (approximately 4,600 feet); Lyndale Drive from Cherry Street to Blackstone Street (approximately 1,950 feet); Auburn / Gem Alley from Cross Avenue to Terrace Avenue (approximately 1,960 feet); Auburn/Cherry Alley from Cross Avenue to Bash Alley (approximately 900 feet); and Bash Alley from Auburn Street to Cherry Street (approximately 320 feet). Megan provided Project Coordination, Permitting, Geotechnical Logging and Sampling, as well as Geotechnical Report Preparation services.

MESA VIEW ROADWAY REPAIR, SANTEE

Staff Geologist | Ms. Stewart served as Staff Geologist for the Mesa View Roadway Repair Project. Geotechnical investigation for the reconstruction of a 2H:1V fill slope where it appears that there has been some ground movement near the top of the slope, which has caused cracks in the ground and concrete curb, and significant horizontal separation between the back of the curb and adjacent ground and between the curb and adjacent PCC pavement. Her duties included Project Coordination, Geotechnical Logging and Sampling, and Geotechnical Report Preparation.

KASTNER INTERMEDIATE SCHOOL ADMINISTRATION BUILDING, FRESNO

Staff Geologist | Ms. Stewart served as Staff Geologist for the Kastner Intermediate School Administration Building Project. The scope of services included geotechnical investigation and geohazards study for the remodel of the southeastern part of the existing administration building. Her duties consisted of project coordination, geotechnical logging and sampling, as well as geotechnical and geohazards report preparation.

ST. AGNES 21KV SUBSTATION AND NORTH TOWER

Staff Geologist | Ms. Stewart served as Staff Geologist for the ST. Agnes 21KV Substation and North Tower Project. Geotechnical Investigation and Geohazards Study for the construction of a new 21kV Substation and a Geohazards Study for the North Tower. Project Coordination, Geotechnical Logging and Sampling , Geotechnical and Geohazards Report Preparation

FRESNO STATE BULLDOG STADIUM MODERNIZATION, FRESNO

Staff Geologist | Ms. Stewart served as Staff Geologist for the Fresno State Bulldog Stadium Modernization Project. Geotechnical Investigations for various projects related to the modernization of Bulldog Stadium. Project Coordination, Geotechnical Logging and Sampling, Geotechnical Report Preparation

CORCORAN POLICE STATION, CORORAN

Staff Geologist | Ms. Stewart served as Staff Geologist for the Corcoran Police Station Project. Geotechnical Investigation for the construction of a new police station. Project Coordination, Geotechnical Logging and Sampling, Geotechnical Report Preparation, Construction Inspections, and Compaction Testing

CLOVIS NORTH CAREER TECHNOLOGY BUILDING - CUSD, CLOVIS

Staff Geologist | Ms. Stewart served as Staff Geologist for the Clovis Helath Career Technology Building Project. Geotechnical Investigation for the installation of a new 31,000 gallon water storage tank. Project Coordination , Geotechnical Logging and Sampling, Geotechnical Report Preparation.

Appendix E

Regional Water Quality Control Board Letter



Received

DEC 24 2015

Department of Public Health
Environmental Health Division



EDMUND G. BROWN JR.
GOVERNOR

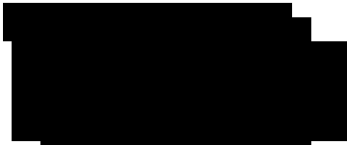


MATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Central Valley Regional Water Quality Control Board

Ohanesian
FA0284615
PR0074210
6706
CIN

23 December 2015



PRELIMINARY SITE INVESTIGATION [REDACTED] ESTATE [REDACTED]
[REDACTED] FRESNO, FRESNO COUNTY

We reviewed the subject report prepared by Willbanks Environmental Consulting, Inc., and dated 24 November 2015. The report summarizes a preliminary soil assessment and excavation of degraded soil.

A tarry substance was encountered during the demolition of a concrete structure at the site. Laboratory analytical results indicated that the substance resembled crude oil with no benzene or naphthalene detected. The concrete structure was removed and the tarry substance disposed of at a licensed facility. The area below the structure was excavated to a depth of 10 feet. Degraded soil not below the structure was removed to a minimum depth of five feet and the highest concentration remaining at five feet was 1,900 milligrams per kilogram. The highest concentration of total petroleum hydrocarbons at 10 feet was 6,900 milligrams per kilogram. Soil borings were drilled from 20 to 50 feet below site grade. No groundwater was encountered. Total petroleum hydrocarbon as crude oil concentrations below 15 feet were below 1,000 milligrams per kilogram. Benzene, toluene, ethylbenzene, xylenes, and naphthalene have not been detected in any of the samples. The consultant does not recommend any further action.

Comments

Remaining concentrations of petroleum hydrocarbons above a depth of 10 feet do not pose a threat to human health from contact based on San Francisco Regional Water Quality Control Board screening levels for motor oil and heavier petroleum hydrocarbons. No volatile petroleum constituents were detected that could pose a threat to indoor air quality and all degraded soil has been removed above a depth of five feet.

It appears that assessment and remediation required by site conditions has been completed. Provided the information you submitted to this agency was accurate and representative, no further assessment or remediation is required for this site. Please be advised that this letter

does not relieve you of any liability under the California Water Code or Health and Safety Code for past, present, or future operations at the site. Nor does it relieve you of any responsibility to clean up existing, additional, or previously unidentified conditions at the site that cause or threaten to cause degradation or nuisance or otherwise pose a threat to water quality or public health.

If you have any questions, please contact [REDACTED] at [REDACTED]

JA
[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Engineering Geologist
PG No. 4435

Senior Engineer
RCE No. 43140

JA:ja

cc: Fresno County Environmental Health Department, Fresno
Noelle Willbanks, Willbanks Environmental Consulting, Inc., 755 N. Peach Ave, Suite G-13,
Clovis, CA 93611

Appendix F
Low VMT Exhibit

Find address or place

Legend

High Quality Transportation Corridor

Parcel Lot Lines

Parcel - VMT per Employee (Fresno County - 13%)

- High (Greater than 13%)
- Medium (within +/- of 13%)
- Low (Less than 13%)
- No Employees

Project Site